

10/594,519-309792-EIC SEARCH

STRUCTURE SEARCH

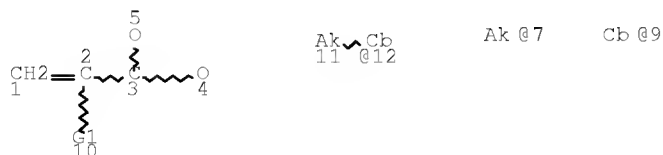
=> d his 183

(FILE 'HCAPLUS' ENTERED AT 13:51:18 ON 28 SEP 2009)

L83 28 S L76 OR L79-L82
SAV TEMP L83 BER519HCPA/A

=> d que stat 183

L2 18 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (100-60-7/BI
OR 102-71-6/BI OR 108-91-8/BI OR 109-89-7/BI OR
110-91-8/BI OR 111-42-2/BI OR 124-30-1/BI OR 124-68-5/B
I OR 137107-41-6/BI OR 141-43-5/BI OR 35830-10-5/BI OR
471-34-1/BI OR 534-18-9/BI OR 584-10-1/BI OR 75-04-7/BI
OR 864970-32-1/BI OR 864970-33-2/BI OR 9003-04-7/BI)
L4 STR



VAR G1=7/9/12

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 4
CONNECT IS E1 RC AT 5
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 9
GGCAT IS UNS AT 12
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M1-X10 C AT 7
ECOUNT IS M6 C AT 9
ECOUNT IS M1-X4 C AT 11
ECOUNT IS M6 C AT 12

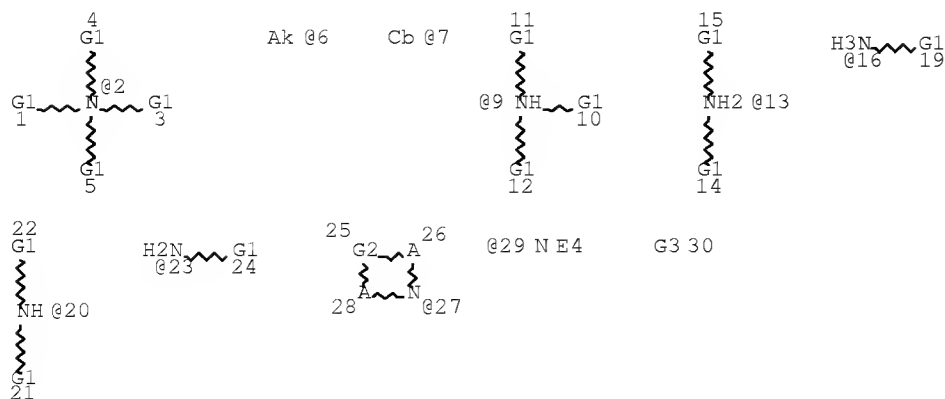
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L12 63799 SEA FILE=REGISTRY SSS FUL L4
L13 626916 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON A1/PG
L14 5826 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L12 AND L13
L15 3961 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L12 AND
?AMMONIUM?/CNS
L16 3901 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L12 AND
?AMINE/CNS
L17 11353 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L12 AND
?SALT/CNS
L18 878 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L16 AND L17
L19 STR

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VAR G1=6/7
 REP G2=(0-5) A
 VAR G3=2/9/13/16/20/23/27/29/NH3
 NODE ATTRIBUTES:
 HCOUNT IS E4 AT 29
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE

L21 22190 SEA FILE=REGISTRY SUB=L12 SSS FUL L4 AND L19
 L22 4666 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L15 OR L18
 L23 3023 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L16 NOT L18
 L24 15704 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L21
 L25 4369 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L22
 L26 1664 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L23
 L27 16554 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L24 OR L25
 L28 10 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L2 AND N/ELS

 L29 121064 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L28
 L30 16798 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L27 OR L26
 L31 329 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L29 AND L30
 L32 4618 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L25 OR L31
 L33 9577 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L14
 L35 117311 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L12
 L36 2127 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L35 AND L29
 L37 155818 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON AMINES/CT
 L38 2197 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L35 AND L37
 L39 3984 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L36 OR L38
 L40 8219 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L32 OR L38 OR
 L39
 L41 QUE SPE=ON ABB=ON PLU=ON HYDROSOLUBL? OR (HYDRO OR
 WATER OR H2O OR AQUEOUS) (A) SOLUBL?
 L42 912 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L40 AND L41
 L43 212 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L42 AND L29
 L44 147 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L42 AND L33
 L45 338 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L43 OR L44
 L46 QUE SPE=ON ABB=ON PLU=ON SUSPEN? OR DISPERS? OR COL
 LOID? OR EMULS? OR MICROEMULS? OR SLURR?
 L47 171 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L45 AND L46
 L48 STR


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CONNECT IS E1 RC AT 4
CONNECT IS E1 RC AT 5
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M2-X6 C AT 10
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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

L50	7985	SEA FILE=REGISTRY	SPE=L12	SSS	FUL	L48	
L51	766	SEA FILE=REGISTRY	SPE=ON	ABB=ON	PLU=ON	L50 AND ?SODIUM?/CNS	
L52	7694	SEA FILE=REGISTRY	SPE=ON	ABB=ON	PLU=ON	L50 AND ACID/CNS	
L53	726	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L51	
L54	13203	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L52	
L55	8	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L47 AND L53	
L56	19	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L53 AND L45	
L57	23	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L54 AND L47	
L58	66	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L54 AND L45	
L59	150	SEA FILE=REGISTRY	SPE=ON	ABB=ON	PLU=ON	L50 AND ?POTASSIUM?/CNS	
L60	124	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L59	
L61	1	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L60 AND L47	
L62	4	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L60 AND L45	
L63	66	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	(L55 OR L56 OR L57 OR L58) OR (L61 OR L62)	
L64	13321	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L50	
L65	351	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L64 AND L29	
L66	16	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L65 AND L47	
L67	42	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L65 AND L45	
L68	67	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L63 OR L66 OR L67	
L69		QUE	SPE=ON	ABB=ON	PLU=ON	PY=<2004 NOT P/DT	
L70	1	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L68 AND L69	
L71		QUE	SPE=ON	ABB=ON	PLU=ON	(PY=<2004 OR PRY=<2004 OR AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT	
L72	44	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L68 AND L71	
L73	45	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L70 OR L72	
L74	23	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L73 AND ((L55 OR L56 OR L57) OR L66)	
L75	24	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L74 OR L70	
L76	24	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L75 AND L41	
L77	25685	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	DISPERSING AGENTS/CT	
L78	45	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L73 AND L41	
L79	3	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L78 AND L77	
L80	3	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L73 AND L77	
L81	4	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L66 AND L77	
L82	0	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L81 AND (L69 OR L70)	
L83	28	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L76 OR (L79 OR L80 OR L81 OR L82)	

STRUCTURE SEARCH RESULTS

=> d 183 1-28 ibib ed abs hitstr hitind

L83 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2009:976516 HCAPLUS Full-text
 DOCUMENT NUMBER: 151:248179
 TITLE: Wetting and dispersing agent
 INVENTOR(S): Goebelt, Bernd; Nagel, Carsten; Omeis,
 Juergen; Meichsner, Marcus; Walter, Diana
 PATENT ASSIGNEE(S): BYK-Chemie GmbH, Germany
 SOURCE: PCT Int. Appl., 39pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009098025	A1	20090813	WO 2009-EP699	2009 0203
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM DE 102008007713 A1 20090806 DE 2008-102008007713 2008 0204 PRIORITY APPLN. INFO.: DE 2008-102008007713A 2008 0204				

ED Entered STN: 14 Aug 2009

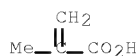
AB The present invention relates to low-VOC mixts. of at least partially salted copolymers of at least one ethylenically unsatd., Ph group-containing monomer and at least one α,β -unsatd. monocarboxylic acid and/or at least one α,β -unsatd. dicarboxylic acid, of at least one water-soluble polyether, esterification products of at least one water-soluble polyether and an aliphatic dicarboxylic acid and a star polymer, obtainable by the esterification of a carboxylic acid comprising at least three carboxyl groups with at least one water-soluble polyether. The invention further relates to the use of a low-VOC mixture according to the invention as a wetting and dispersing agent, preferably for the production of low-VOC pigment pastes or low-VOC paint systems.

IT 79-41-4D, Methacrylic acid, C1-C6 alkyl esters, and other derivs., copolymers with vinyl Ph group-containing monomers
 97-65-4D, Itaconic acid, copolymers with vinyl Ph group-containing monomers 124-68-5, AMP 90

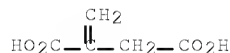
RL: MOA (Modifier or additive use); USES (Uses)
 (wetting and dispersing agent for pigments)

RN 79-41-4 HCAPLUS

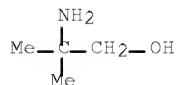
CN 2-Propenoic acid, 2-methyl- (CA INDEX NAME)



RN 97-65-4 HCAPLUS
CN Butanedioic acid, 2-methylene- (CA INDEX NAME)



RN 124-68-5 HCAPLUS
CN 1-Propanol, 2-amino-2-methyl- (CA INDEX NAME)



CC 42-5 (Coatings, Inks, and Related Products)
Section cross-reference(s): 38, 46, 48, 66

ST wetting dispersing agent arom vinyl carboxylated polymer
pigment lacquer; polyoxyalkylene ester wetting dispersing
agent copolymer blend

IT Amines
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkoxylated, tertiary diamines; wetting and dispersing
agent for pigments)

IT Vinyl compounds
RL: MOA (Modifier or additive use); PRP (Properties); SPN
(Synthetic preparation); PREP (Preparation); USES (Uses)
(aryl, polymers; wetting and dispersing agent for
pigments)

IT Polymers
RL: MOA (Modifier or additive use); PRP (Properties); SPN
(Synthetic preparation); PREP (Preparation); USES (Uses)
(block, diblock; wetting and dispersing agent for
pigments)

IT Vinyl compounds
RL: MOA (Modifier or additive use); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)
(carboxy-containing, polymers, aromatic, alkali metal, alkaline earth
metal, and ammonium salts; wetting and dispersing
agent for pigments)

IT Epoxides
RL: MOA (Modifier or additive use); USES (Uses)
(copolymers containing ethylene oxide; wetting and
dispersing agent for pigments)

IT Solutions
(cosmetic, dispersants for solids for; wetting and
dispersing agent for pigments)

IT Anhydrides
RL: MOA (Modifier or additive use); USES (Uses)
(cyclic, α,β -unsatd., copolymers with vinyl Ph
group-containing monomers; wetting and dispersing agent
for pigments)

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IT Polyethers
RL: MOA (Modifier or additive use); USES (Uses)
(di-Me siloxane-; wetting and dispersing agent for pigments)

IT Polysiloxanes
RL: MOA (Modifier or additive use); USES (Uses)
(di-Me, polyether-; wetting and dispersing agent for pigments)

IT Carboxylic acids
RL: MOA (Modifier or additive use); USES (Uses)
(dicarboxylic, esters, esters with water-sol . polyethers; wetting and dispersing agent for pigments)

IT Fatty acids
RL: MOA (Modifier or additive use); USES (Uses)
(dimer acids, from C12-C22 acids, esters with water-soluble polyethers; wetting and dispersing agent for pigments)

IT Cosmetics and personal care products
Inks
(dispersants for pigments for; wetting and dispersing agent for pigments)

IT Cosmetic creams
Cosmetic gels
Cosmetic lotions
Cosmetic sprays
(dispersants for solids for; wetting and dispersing agent for pigments)

IT Carbon black
RL: TEM (Technical or engineered material use); USES (Uses)
(dispersions and lacquers containing; wetting and dispersing agent for pigments)

IT Polyethers
RL: MOA (Modifier or additive use); USES (Uses)
(esters of; wetting and dispersing agent for pigments)

IT Polyoxyalkylenes
RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(esters; wetting and dispersing agent for pigments)

IT Amines
RL: MOA (Modifier or additive use); USES (Uses)
(hydroxy-containing, water-soluble diesters; wetting and dispersing agent for pigments)

IT Lacquers
Pastes
(low-VOC, wetting agents and dispersants for; wetting and dispersing agent for pigments)

IT Luster
(of dried lacquer films; wetting and dispersing agent for pigments)

IT Saponification
(of hydroxy groups in polymers; wetting and dispersing agent for pigments)

IT Films
Viscosity
(of prepared lacquer; wetting and dispersing agent for pigments)

IT Amines
RL: MOA (Modifier or additive use); USES (Uses)
(polyamines, nonpolymeric, carboxylic acid-containing adducts, esters with water-soluble polyethers; wetting and dispersing agent for pigments)

IT Alcohols
RL: MOA (Modifier or additive use); USES (Uses)
(polyhydric, esters, carboxylic acid and amide-containing; wetting and dispersing agent for pigments)

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- IT Lactones
RL: MOA (Modifier or additive use); USES (Uses)
(polymers, C3-C10, copolymers containing ethylene oxide; wetting and dispersing agent for pigments)
- IT Quaternary ammonium compounds
RL: MOA (Modifier or additive use); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)
(polymers, alkoxyated quat. ammonium cations; wetting and dispersing agent for pigments)
- IT Polymers
RL: MOA (Modifier or additive use); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)
(star-branched, polyester; wetting and dispersing agent for pigments)
- IT Fatty acids
RL: MOA (Modifier or additive use); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)
(tall-oil, copolymers with Pluriol A 750 E; wetting and dispersing agent for pigments)
- IT Fatty acids
RL: RCT (Reactant); RACT (Reactant or reagent)
(tall-oil; wetting and dispersing agent for pigments)
- IT Amides
RL: MOA (Modifier or additive use); USES (Uses)
(unsatd., polymers with Ph group-containing vinyl monomers; wetting and dispersing agent for pigments)
- IT Carboxylic acids
RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(unsatd., polymers, mono- and di-basic acids; wetting and dispersing agent for pigments)
- IT Fatty acids
RL: MOA (Modifier or additive use); USES (Uses)
(unsatd., trimers, from C12-C22 acids, esters with water-soluble polyethers; wetting and dispersing agent for pigments)
- IT Dispersing agents
Wetting
Wetting agents
(wetting and dispersing agent for pigments)
- IT 9038-95-3, Pluriol A 2300PE
RL: RCT (Reactant); RACT (Reactant or reagent)
(Pluriol A 2300PE; wetting and dispersing agent for pigments)
- IT 147-14-8, Heliogen Blue L7101F 385388-55-6, Tronox CR 826
RL: TEM (Technical or engineered material use); USES (Uses)
(dispersions and lacquers containing; wetting and dispersing agent for pigments)
- IT 654636-62-1, BlocBuilder
RL: CAT (Catalyst use); USES (Uses)
(to make diblock copolymer; wetting and dispersing agent for pigments)
- IT 57-55-6, Propylene glycol, uses 57-57-8D, Propiolactone, copolymers containing ethylene oxide 75-21-8D, Ethylene oxide, copolymers, derivs. 79-10-7D, Acrylic acid, C1-C6 alkyl esters, and other derivs., copolymers with vinyl Ph group-containing monomers 73-41-4D, Methacrylic acid, C1-C6 alkyl esters, and other derivs., copolymers with vinyl Ph group-containing monomers 57-55-4D, Itaconic acid, copolymers with vinyl Ph group-containing monomers 57-55-4D, Itaconic acid, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers 100-42-5D, Styrene, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 108-29-2D, copolymers containing ethylene oxide 108-30-5D, Succinic anhydride, esters with water-soluble polyethers or diols 108-31-6D, Maleic anhydride, copolymers with vinyl Ph

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group-containing monomers 108-31-6D, Maleic anhydride, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers, uses 110-16-7D, Maleic acid, copolymers with vinyl Ph group-containing monomers 110-16-7D, Maleic acid, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers 110-17-8D, Fumaric acid, copolymers with vinyl Ph group-containing monomers 110-17-8D, Fumaric acid, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers 122-60-1D, Phenyl glycidyl ether, copolymers containing ethylene oxide 124-68-5, AMP 90 502-44-3D, ϵ -Caprolactone, copolymers containing ethylene oxide 556-52-5D, Glycidol, ethers with up to C17 aliphatic and aromatic alcs., copolymers containing ethylene oxide 589-81-1D, 2-Ethylhexane, poly-oxiranylmethoxy derivs., copolymers containing ethylene oxide 937-41-7D, Phenyl acrylate, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 2426-08-6D, n-Butyl glycidyl ether, copolymers containing ethylene oxide 2495-35-4D, Benzyl acrylate, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 2495-37-6D, Benzyl methacrylate, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 4016-14-2D, Isopropyl glycidyl ether, copolymers containing ethylene oxide 9003-11-6, Ethylene oxide-propylene oxide copolymer 25265-77-4, Texanol 25867-06-5, Ethylene oxide-styrene oxide copolymer 27517-34-6, Ethylene oxide-butylene oxide copolymer 172867-85-5, Tafigel PUR 40 192140-50-4, Byk 024 272772-61-9, Parmetol A 26 294653-16-0, Byk 028

RL: MOA (Modifier or additive use); USES (Uses)

(wetting and dispersing agent for pigments)

IT 9011-13-6P, Styrene-maleic anhydride copolymer 120293-17-6P

RL: MOA (Modifier or additive use); PRP (Properties); RCT

(Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent); USES (Uses)

(wetting and dispersing agent for pigments)

IT 9004-74-4DP, Pluriol A 750 E, ester reaction products with Pripol

1022 or tall oil fatty acids 9011-13-6DP, Styrene-maleic

anhydride copolymer, sodium or potassium or diaminopropylamine or

alkoxylated quaternary ammonium salts 9038-95-3DP, ester

reaction products with Pripol 1022 105187-99-3DP, Pripol 1022,

ester reaction products with Pluriol A 750 E or Pluriol A 2300PE

709024-68-0DP, Acrylic acid-styrene diblock copolymer, potassium

salts 862736-37-6P

RL: MOA (Modifier or additive use); PRP (Properties); SPN

(Synthetic preparation); PREP (Preparation); USES (Uses)

(wetting and dispersing agent for pigments)

IT 632340-34-2, Mowilith LDM 7416

RL: NUU (Other use, unclassified); TEM (Technical or engineered

material use); USES (Uses)

(wetting and dispersing agent for pigments)

IT 9004-74-4, Pluriol A 750 E 37960-66-0, 1,1,3-Propanetriamine

105187-99-3, Pripol 1022

RL: RCT (Reactant); RACT (Reactant or reagent)

(wetting and dispersing agent for pigments)

IT 1310-58-3, Potassium hydroxide, reactions 1310-73-2, Sodium

hydroxide, reactions

RL: RGT (Reagent); RACT (Reactant or reagent)

(wetting and dispersing agent for pigments)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L83 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:940622 HCAPLUS Full-text

DOCUMENT NUMBER: 151:248176

TITLE: Wetting and dispersing agent

INVENTOR(S): Goebelt, Bernd; Nagel, Carsten; Omeis,

10/594,519-309792-EIC SEARCH

PATENT ASSIGNEE(S): Juergen; Meichsner, Marcus; Walter, Diana
 SOURCE: BYK-Chemie G.m.b.H., Germany
 Ger. Offen., 18pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102008007713	A1	20090806	DE 2008-102008007713	2008 0204
WO 2009098025	A1	20090813	WO 2009-EP699	2009 0203

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW,
 BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ,
 EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU,
 ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC,
 LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX,
 MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,
 RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
 HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL,
 PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
 GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW,
 MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM

PRIORITY APPLN. INFO.: DE 2008-102008007713A
 2008
 0204

ED Entered STN: 06 Aug 2009

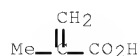
AB The present invention concerns VOC-poor mixts. of at least partially salted copolymers
 of at least one ethylenically unsatd., Ph group-containing monomer and at least one α ,
 β -unsatd. monocarboxylic acid and/or at least one α , β -unsatd. dicarboxylic acid, of at
 least one water-soluble Polyether, transesterification products of at least one water-
 soluble Polyether and an aliphatic dicarboxylic acid and a star polymer, obtainable by
 transesterification of one, at least 3 carboxyl groups of an exhibiting carboxylic acid
 with at least one water-soluble Polyether as well as the use of a mixture, according to
 the invention, as wetting and dispersing agents, preferably for the production of VOC-
 poor pigment pastes or VOC-poor lacquer systems.

IT 79-41-4D, Methacrylic acid, derivs., copolymers with
 vinyl Ph group-containing monomers 97-65-4D, Itaconic
 acid, copolymers with vinyl Ph group-containing monomers
 124-68-5, AMP 90

RL: MOA (Modifier or additive use); USES (Uses)
 (wetting and dispersing agent for pigments)

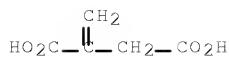
RN 79-41-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl- (CA INDEX NAME)

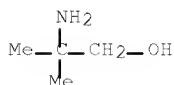


RN 97-65-4 HCAPLUS

CN Butanedioic acid, 2-methylene- (CA INDEX NAME)



RN 124-68-5 HCAPLUS
 CN 1-Propanol, 2-amino-2-methyl- (CA INDEX NAME)



CC 42-5 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38, 46, 48, 66

ST wetting ~~dispersing~~ agent arom vinyl carboxylated polymer
 pigment lacquer; polyoxyalkylene ester wetting ~~dispersing~~
 agent copolymer blend

IT ~~Amines~~
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (alkoxylated, tertiary diamines; wetting and ~~dispersing~~
 agent for pigments)

IT Vinyl compounds
 RL: MOA (Modifier or additive use); PRP (Properties); SPN
 (Synthetic preparation); PREP (Preparation); USES (Uses)
 (aryl, polymers; wetting and ~~dispersing~~ agent for
 pigments)

IT Polymers
 RL: MOA (Modifier or additive use); PRP (Properties); SPN
 (Synthetic preparation); PREP (Preparation); USES (Uses)
 (block, diblock; wetting and ~~dispersing~~ agent for
 pigments)

IT Vinyl compounds
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation);
 PREP (Preparation); USES (Uses)
 (carboxy-containing, polymers, aromatic, alkali metal, alkaline earth
 metal, and ammonium salts; wetting and ~~dispersing~~
 agent for pigments)

IT Epoxides
 RL: MOA (Modifier or additive use); USES (Uses)
 (copolymers containing ethylene oxide; wetting and
~~dispersing~~ agent for pigments)

IT Solutions
 (cosmetic, ~~dispersants~~ for solids for; wetting and
~~dispersing~~ agent for pigments)

IT Anhydrides
 RL: MOA (Modifier or additive use); USES (Uses)
 (cyclic, α,β -unsatd., copolymers with vinyl Ph
 group-containing monomers; wetting and ~~dispersing~~ agent
 for pigments)

IT Polyethers
 RL: MOA (Modifier or additive use); USES (Uses)
 (di-Me siloxane-, Byk 348; wetting and ~~dispersing~~
 agent for pigments)

IT Polysiloxanes
 RL: MOA (Modifier or additive use); USES (Uses)
 (di-Me, polyether-, Byk 348; wetting and ~~dispersing~~
 agent for pigments)

IT Carboxylic acids
 RL: MOA (Modifier or additive use); USES (Uses)
 (dicarboxylic, esters, esters with water-sol
 . polyethers; wetting and ~~dispersing~~ agent for

pigments)

IT Fatty acids
 RL: MOA (Modifier or additive use); USES (Uses)
 (dimer acids, from C12-C22 acids, esters with water-soluble polyethers; wetting and dispersing agent for pigments)

IT Cosmetics and personal care products
 Inks
 (dispersants for pigments for; wetting and dispersing agent for pigments)

IT Cosmetic creams
 Cosmetic gels
 Cosmetic lotions
 Cosmetic sprays
 (dispersants for solids for; wetting and dispersing agent for pigments)

IT Carbon black
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dispersions and lacquers containing; wetting and dispersing agent for pigments)

IT Polyethers
 RL: MOA (Modifier or additive use); USES (Uses)
 (esters of; wetting and dispersing agent for pigments)

IT Polyoxyalkylenes
 RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (esters; wetting and dispersing agent for pigments)

IT Amines
 RL: MOA (Modifier or additive use); USES (Uses)
 (hydroxy-containing, water-soluble diesters; wetting and dispersing agent for pigments)

IT Lacquers
 Pastes
 (low-VOC, wetting agents and dispersants for; wetting and dispersing agent for pigments)

IT Luster
 (of dried lacquer films; wetting and dispersing agent for pigments)

IT Saponification
 (of hydroxy groups in polymers; wetting and dispersing agent for pigments)

IT Films
 Viscosity
 (of prepared lacquer; wetting and dispersing agent for pigments)

IT Amines
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyamines, nonpolymeric, carboxylic acid-containing adducts, esters with water-soluble polyethers; wetting and dispersing agent for pigments)

IT Alcohols
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyhydric, esters, carboxylic acid and amide-containing; wetting and dispersing agent for pigments)

IT Lactones
 RL: MOA (Modifier or additive use); USES (Uses)
 (polymers, C3-C10, copolymers containing ethylene oxide; wetting and dispersing agent for pigments)

IT Quaternary ammonium compounds
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (polymers, alkoxylated quat. ammonium cations; wetting and dispersing agent for pigments)

IT Polymers
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

10/594,519-309792-EIC SEARCH

- (star-branched, polyester; wetting and dispersing agent for pigments)
- IT Fatty acids
RL: MOA (Modifier or additive use); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)
(tall-oil, copolymers with Pluriol A 750 E; wetting and dispersing agent for pigments)
- IT Fatty acids
RL: RCT (Reactant); RACT (Reactant or reagent)
(tall-oil; wetting and dispersing agent for pigments)
- IT Amides
RL: MOA (Modifier or additive use); USES (Uses)
(unsatd., polymers with Ph group-containing vinyl monomers; wetting and dispersing agent for pigments)
- IT Carboxylic acids
RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(unsatd., polymers, mono- and di-basic acids; wetting and dispersing agent for pigments)
- IT Fatty acids
RL: MOA (Modifier or additive use); USES (Uses)
(unsatd., trimers, from C12-C22 acids, esters with water-soluble polyethers; wetting and dispersing agent for pigments)
- IT Dispersing agents
Wetting
Wetting agents
(wetting and dispersing agent for pigments)
- IT 147-14-8, Heliogen Blue L7101F 385388-55-6, Tronox CR 826
RL: TEM (Technical or engineered material use); USES (Uses)
(dispersions and lacquers containing; wetting and dispersing agent for pigments)
- IT 654636-62-1, BlocBuilder
RL: CAT (Catalyst use); USES (Uses)
(to make diblock copolymer; wetting and dispersing agent for pigments)
- IT 57-55-6, Propylene glycol, uses 75-21-8D, Ethylene oxide, copolymers, derivs. 79-10-7D, Acrylic acid, derivs., copolymers with vinyl Ph group-containing monomers 79-41-4D, Methacrylic acid, derivs., copolymers with vinyl Ph group-containing monomers 97-65-4D, Itaconic acid, copolymers with vinyl Ph group-containing monomers 97-65-4D, Itaconic acid, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers 100-42-5D, Styrene, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 108-30-5D, Succinic anhydride, esters with water-soluble polyethers or diols 108-31-6D, Maleic anhydride, copolymers with vinyl Ph group-containing monomers 108-31-6D, Maleic anhydride, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers, uses 110-16-7D, Maleic acid, copolymers with vinyl Ph group-containing monomers 110-16-7D, Maleic acid, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers 110-17-8D, Fumaric acid, copolymers with vinyl Ph group-containing monomers 110-17-8D, Fumaric acid, ester, amide, or other derivs., copolymers with vinyl Ph group-containing monomers 122-60-1D, Phenyl glycidyl ether, copolymers containing ethylene oxide 124-68-5, AMP 90 556-52-5D, Glycidol, ethers with up to C17 aliphatic and aromatic alcs., copolymers containing ethylene oxide 589-81-1D, 2-Ethylhexane, poly-oxiranylmethoxy derivs., copolymers containing ethylene oxide 937-41-7D, Phenyl acrylate, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 2426-08-6D, n-Butyl glycidyl ether, copolymers containing ethylene oxide 2495-35-4D, Benzyl acrylate, copolymers with carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 2495-37-6D, Benzyl methacrylate, copolymers with

10/594,519-309792-EIC SEARCH

carboxy-containing α,β -unsatd. carboxylic acid monomers and their derivs. 4016-14-2D, Isopropyl glycidyl ether, copolymers containing ethylene oxide 9003-11-6, Ethylene oxide-propylene oxide copolymer 25265-77-4, Texanol 25867-06-5, Ethylene oxide-styrene oxide copolymer 27517-34-6, Ethylene oxide-butylene oxide copolymer 172867-85-5, Tafigel PUR 40 192140-50-4, Byk 024 272772-61-9, Parmetol A 26 294653-16-0, Byk 028

RL: MOA (Modifier or additive use); USES (Uses)

(wetting and dispersing agent for pigments)

IT 9011-13-6P, Styrene-maleic anhydride copolymer 120293-17-6P

RL: MOA (Modifier or additive use); PRP (Properties); RCT

(Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent); USES (Uses)

(wetting and dispersing agent for pigments)

IT 9004-74-4DP, Pluriol A 750 E, ester reaction products with Pripol

1022 or tall oil fatty acids 9011-13-6DP, Styrene-maleic

anhydride copolymer, sodium or potassium or diaminopropylamine or

alkoxylated quaternary ammonium salts 9038-95-3DP, ester

reaction products with Pripol 1022 105187-99-3DP, Pripol 1022,

ester reaction products with Pluriol A 750 E or Pluriol A2300PE

709024-68-0DP, Acrylic acid-styrene diblock copolymer, potassium

salts 862736-37-6P

RL: MOA (Modifier or additive use); PRP (Properties); SPN

(Synthetic preparation); PREP (Preparation); USES (Uses)

(wetting and dispersing agent for pigments)

IT 632340-34-2, Mowilith LDM 7416

RL: NUU (Other use, unclassified); TEM (Technical or engineered

material use); USES (Uses)

(wetting and dispersing agent for pigments)

IT 9004-74-4, Pluriol A 750 E 9038-95-3 37960-66-0,

1,1,3-Propanetriamine 105187-99-3, Pripol 1022

RL: RCT (Reactant); RACT (Reactant or reagent)

(wetting and dispersing agent for pigments)

IT 1310-58-3, Potassium hydroxide, reactions 1310-73-2, Sodium

hydroxide, reactions

RL: RGT (Reagent); RACT (Reactant or reagent)

(wetting and dispersing agent for pigments)

REFERENCE COUNT: 2

THERE ARE 2 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L83 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1194538 HCAPLUS Full-text

DOCUMENT NUMBER: 149:495900

TITLE: Method for preparation of polymer ceramic
dispersant

INVENTOR(S): Wang, Haihua; Shen, Yiding; Fei, Guiqiang; Li,
Xiaorui

PATENT ASSIGNEE(S): Shaanxi University of Science and Technology,
Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu,
13pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 101274242	A	20081001	CN 2008-10017258	

2008
0108

PRIORITY APPLN. INFO.:

CN 2008-10017258

2008

0108

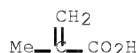
ED Entered STN: 06 Oct 2008

AB The title method comprises mixing polyethylene glycol and maleic anhydride with the molar ratio of 1:0.1-1.2 to obtain solution A, adding acidic solution into solution A with the solid weight ratio of 0.5-10:100, heating to 30-90° for 0.5-4 h to obtain esterification product B, mixing the product B, functional monomer and vinyl monomer with the weight ratio of 1:(1-10):(0.1-1.5) to obtain monomer solution C, mixing the solution C, a mol.-weight regulator and water with the weight ratio of 1:(0-0.5):(1-10) to obtain monomer solution D, mixing water and water-soluble initiator with the weight ratio of 1:(0.002-1) to obtain an initiator water solution E, adding the solution E into the solution D at 40-90° with the weight ratio of 100:(0.05-20) for 0.1-4 h, adjusting to 50-95° to react for 1-6 h to obtain copolymer water solution F, and adjusting pH to 7-13 to obtain polymer ceramic dispersant. The acidic solution is from sulfuric acid, formic acid, acetic acid, and/or oxalic acid. The mol.-weight regulator is dodecyl mercaptan, ethanethiol, triethanolamine, or isopropanol. The title method may decrease the cost, and improve the d. and flexural strength of ceramic product. The title polymer ceramic dispersant may be used for dispersing pigment and paint.

IT 79-41-4, Methacrylic acid, reactions 97-65-4
 , Itaconic acid, reactions 27813-02-1, Hydroxypropyl
 methacrylate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (method for preparation of polymer ceramic dispersant)

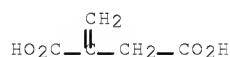
RN 79-41-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl- (CA INDEX NAME)



RN 97-65-4 HCAPLUS

CN Butanedioic acid, 2-methylene- (CA INDEX NAME)



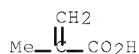
RN 27813-02-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (CA
 INDEX NAME)

CM 1

CRN 79-41-4

CMF C4 H6 O2



CM 2

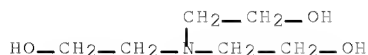
CRN 57-55-6

CMF C3 H8 O2

10/594,519-309792-EIC SEARCH



IT 102-71-6, Triethanolamine, reactions
 RL: RGT (Reagent); RACT (Reactant or reagent)
 (mol. weight regulator; method for preparation of polymer ceramic dispersant)
 RN 102-71-6 HCAPLUS
 CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



CC 48-1 (Unit Operations and Processes)
 ST polymer ceramic dispersant prepn polymn PEG maleic anhydride
 IT Ceramics
 Dispersing agents
 Esterification
 Polymerization
 (method for preparation of polymer ceramic dispersant)
 IT Polyoxyalkylenes, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (method for preparation of polymer ceramic dispersant)
 IT 7631-90-5, Sodium bisulfite 7727-21-1, Potassium persulfate
 7727-54-0, Ammonium persulfate 7757-83-7, Sodium sulfite
 7772-98-7, Sodium thiosulfate
 RL: CAT (Catalyst use); USES (Uses)
 (initiator; method for preparation of polymer ceramic dispersant)
 IT 75-50-3, Trimethylamine, uses 121-44-8, Triethylamine, uses
 144-55-8, Sodium bicarbonate, uses 497-19-8, Sodium carbonate,
 uses 1310-58-3, Potassium hydroxide, uses 1310-73-2, Sodium
 hydroxide, uses 7664-41-7, Ammonia, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (method for preparation of polymer ceramic dispersant)
 IT 64-18-6, Formic acid, reactions 64-19-7, Acetic acid, reactions
 79-10-7, Acrylic acid, reactions 79-41-4, Methacrylic
 acid, reactions 80-62-6, Methyl methacrylate 96-33-3, Methyl
 acrylate 97-63-2, Ethyl methacrylate 97-55-4,
 Itaconic acid, reactions 97-88-1, Butyl methacrylate 98-11-3D,
 Benzenesulfonic acid, alkyl derivs. 98-83-9, Methylstyrene,
 reactions 100-42-5, Styrene, reactions 108-31-6, Maleic
 anhydride, reactions 140-88-5, Ethyl acrylate 141-32-2, Butyl
 acrylate 142-09-6, Hexyl methacrylate 144-62-7, Oxalic acid,
 reactions 818-61-1 868-77-9 1606-80-0, Allylsulfonic acid
 2499-95-8, Hexyl acrylate 3934-16-5, Methallylsulfonic acid
 4813-57-4, Octadecyl acrylate 7664-93-9, Sulfuric acid,
 reactions 25322-68-3, PEG 1000 25584-83-2, Hydroxypropyl
 acrylate 27813-02-1, Hydroxypropyl methacrylate
 32360-05-7, Octadecyl methacrylate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (method for preparation of polymer ceramic dispersant)
 IT 67-63-0, Isopropanol, reactions 75-08-1, Ethanethiol
 102-71-6, Triethanolamine, reactions 112-55-0, Dodecyl
 mercaptan
 RL: RGT (Reagent); RACT (Reactant or reagent)
 (mol. weight regulator; method for preparation of polymer ceramic

10/594,519-309792-EIC SEARCH

dispersant)

L83 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:675510 HCAPLUS Full-text
 DOCUMENT NUMBER: 147:96074
 TITLE: Production of water-soluble
 anionic polymer dispersions
 INVENTOR(S): Han, Sung Wook; Lee, Seung Chul
 PATENT ASSIGNEE(S): Green Technology, Inc., S. Korea; Taki
 Chemical Co., Ltd.
 SOURCE: PCT Int. Appl., 45pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007069857	A1	20070621	WO 2006-KR5449	2006 1214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
KR 2007064120	A	20070620	KR 2005-124706	2005 1216
KR 811212	B1	20080307		
US 20070142519	A1	20070621	US 2006-638541	2006 1214
PRIORITY APPLN. INFO.:				2005 1216
KR 2005-124706				A

ED Entered STN: 22 Jun 2007

AB A water-soluble anionic polymer dispersion comprises a radical copolymer comprising an anionic monomer and a nonionic monomer and prepared in salt-containing water in the presence of an ionic dispersant, a radical polymerization initiator, and an anionic surfactant or nonionic surfactant. The anionic polymer dispersion has high solids content, high polymer mol. weight, and low viscosity of the reaction mixture and the final product. Thus, a 50%-aqueous acrylamide solution (101.718), 99% 2-acrylamide-2-methyl-1-propanesulfonic acid (131.058), 99% itaconic acid (19.589), 15% poly(sodium acrylate) (53.333), Noigen ET 135 surfactant (4.0), glycerol (6.0), ammonium sulfate (208.444), and deionized water (420.301 g) were mixed in a reactor, the reactor was purged with nitrogen for 20 min, and the temperature was set at 35°. The polymerization was initiated by adding 1.0 g of a 2%-aqueous VA 044 initiator, the polymerization was carried out for 6 h, the same amount of VA 044 initiator was added again, the polymerization was carried out for addnl. 12 h, and ammonium sulfate (55.556 g) was added to obtain a water-soluble anionic polymer dispersion having an average particle size of 7 µ and a viscosity of 57 cps.

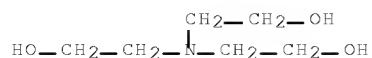
IT 102-71-6, Triethanolamine, uses
 RL: CAT (Catalyst use); USES (Uses)
 (production of water-soluble anionic polymer

10/594,519-309792-EIC SEARCH

(dispersions)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



IT 38808-69-4P, Acrylamide-acrylic acid-itaconic acid
 copolymer 115426-14-7P 942054-57-1P,
 Acrylamide-2-acrylamide-2-methylpropanesulfonic acid-itaconic
 acid-sodium acrylate copolymer 942054-58-2P,
 Acrylamide-2-acrylamide-2-methylpropanesulfonic acid-acrylic
 acid-itaconic acid-sodium acrylate copolymer
 942054-59-3P 942054-60-6P
 942054-61-7P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (production of water-soluble anionic polymer
 dispersions)

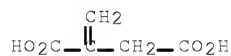
RN 38808-69-4 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with 2-propenamide and
 2-propenoic acid (CA INDEX NAME)

CM 1

CRN 97-65-4

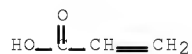
CMF C5 H6 O4



CM 2

CRN 79-10-7

CMF C3 H4 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



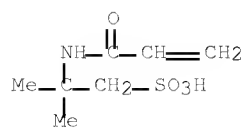
RN 115426-14-7 HCAPLUS

10/594,519-309792-EIC SEARCH

CN Butanedioic acid, 2-methylene-, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid and
2-propenamide (CA INDEX NAME)

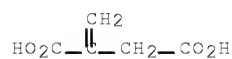
CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S



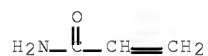
CM 2

CRN 97-65-4
CMF C5 H6 O4



CM 3

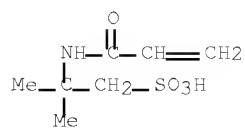
CRN 79-06-1
CMF C3 H5 N O



RN 942054-57-1 HCAPLUS
CN Butanedioic acid, 2-methylene-, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid,
2-propenamide and sodium 2-propenoate (1:1) (CA INDEX NAME)

CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S

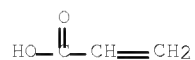


10/594,519-309792-EIC SEARCH

CM 2

CRN 7446-81-3

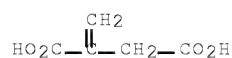
CMF C3 H4 O2 . Na



CM 3

CRN 97-65-4

CMF C5 H6 O4



CM 4

CRN 79-06-1

CMF C3 H5 N O



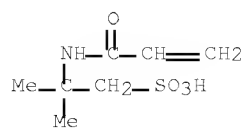
RN 942054-58-2 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid,
2-propenamide, 2-propenoic acid and sodium 2-propenoate (1:1) (CA
INDEX NAME)

CM 1

CRN 15214-89-8

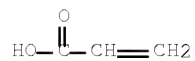
CMF C7 H13 N O4 S



CM 2

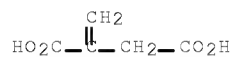
10/594,519-309792-EIC SEARCH

CRN 7446-81-3
CMF C3 H4 O2 . Na



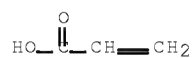
CM 3

CRN 97-65-4
CMF C5 H6 O4



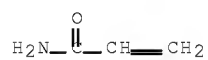
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

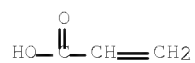
CRN 79-06-1
CMF C3 H5 N O



RN 942054-59-3 HCAPLUS
CN Butanedioic acid, 2-methylene-, polymer with 2-propenamide and sodium 2-propenoate (1:1) (CA INDEX NAME)

CM 1

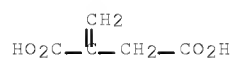
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 97-65-4
CMF C5 H6 O4



CM 3

CRN 79-06-1
CMF C3 H5 N O

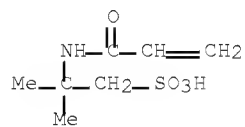


RN 942054-60-6 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid,
2-propenamide and 2-propenoic acid (CA INDEX NAME)

CM 1

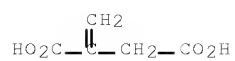
CRN 15214-89-8
CMF C7 H13 N O4 S



CM 2

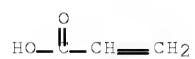
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CMF C5 H6 O4

10/594,519-309792-EIC SEARCH



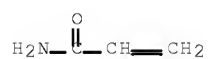
CM 3

CRN 79-10-7
CMF C3 H4 O2



CM 4

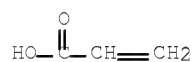
CRN 79-06-1
CMF C3 H5 N O



RN 942054-61-7 HCAPLUS
CN Butanedioic acid, 2-methylene-, polymer with 2-propenamide,
2-propenoic acid and sodium 2-propenoate (1:1) (CA INDEX NAME)

CM 1

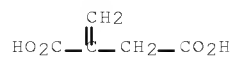
CRN 7446-81-3
CMF C3 H4 O2 . Na



● Na

CM 2

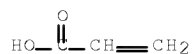
CRN 97-65-4
CMF C5 H6 O4



10/594,519-309792-EIC SEARCH

CM 3

CRN 79-10-7
CMF C3 H4 O2



CM 4

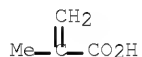
CRN 79-06-1
CMF C3 H5 N O



IT 25086-62-8, Sodium methacrylate homopolymer
25087-26-7, Poly(methacrylic acid)
RL: NUU (Other use, unclassified); USES (Uses)
(production of water-soluble anionic polymer
dispersions)
RN 25086-62-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, sodium salt (1:1), homopolymer (CA
INDEX NAME)

CM 1

CRN 5536-61-8
CMF C4 H6 O2 . Na

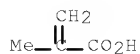


● Na

RN 25087-26-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 79-41-4
CMF C4 H6 O2



CC 35-4 (Chemistry of Synthetic High Polymers)

10/594,519-309792-EIC SEARCH

ST radical polymn water soluble anionic acrylic
polymer dispersion

IT Alcohols, uses
RL: NUU (Other use, unclassified); USES (Uses)
(C12-14-branched, ethoxylated, Noigen ET 135; production of
water-soluble anionic polymer
dispersions)

IT Polyoxyalkylenes, uses
RL: NUU (Other use, unclassified); USES (Uses)
(alkyl group-terminated; production of water-sol
. anionic polymer dispersions)

IT Polyoxyalkylenes, uses
RL: NUU (Other use, unclassified); USES (Uses)
(alkylphenyl group-terminated; production of water-
soluble anionic polymer dispersions)

IT Polyelectrolytes
Surfactants
(anionic; production of water-soluble anionic
polymer dispersions)

IT Polymerization
(emulsion, radical; production of water-
soluble anionic polymer dispersions)

IT Lanolin
RL: NUU (Other use, unclassified); USES (Uses)
(ethoxylated; production of water-soluble anionic
polymer dispersions)

IT Surfactants
(nonionic; production of water-soluble anionic
polymer dispersions)

IT Carboxylic acids, uses
RL: NUU (Other use, unclassified); USES (Uses)
(polycarboxylic, salts; production of water-sol
. anionic polymer dispersions)

IT Carboxylic acids, uses
RL: NUU (Other use, unclassified); USES (Uses)
(polycarboxylic; production of water-soluble
anionic polymer dispersions)

IT Disperse systems
Dispersing agents
(production of water-soluble anionic polymer
dispersions)

IT Polyoxyalkylenes, uses
RL: NUU (Other use, unclassified); USES (Uses)
(production of water-soluble anionic polymer
dispersions)

IT Polymerization catalysts
(radical; production of water-soluble anionic
polymer dispersions)

IT Polymers, preparation
RL: IMF (Industrial manufacture); PREP (Preparation)
(water-soluble; production of water-
soluble anionic polymer dispersions)

IT 9004-32-4, Cellogen NB-P
RL: NUU (Other use, unclassified); USES (Uses)
(Cellogen 5A; production of water-soluble anionic
polymer dispersions)

IT 2997-92-4, 2,2'-Azobis(2-amidinopropane) dihydrochloride
RL: CAT (Catalyst use); USES (Uses)
(V 50; production of water-soluble anionic polymer
dispersions)

IT 102-71-6, Triethanolamine, uses 110-18-9,
N,N,N',N'-Tetramethylethylenediamine 7631-90-5, Sodium bisulfite
7722-84-1, Hydrogen peroxide, uses 7727-21-1, Potassium
persulfate 7727-54-0, Ammonium persulfate 7757-83-7, Sodium
sulfite 7772-98-7, Sodium thiosulfate 7775-27-1, Sodium
persulfate 15545-97-8, 2,2'-Azobis(4-methoxy-2,4-
dimethyl)valeronitrile 27776-21-2, VA 044 942054-56-0

10/594,519-309792-EIC SEARCH

RL: CAT (Catalyst use); USES (Uses)
(production of water-soluble anionic polymer
dispersions)

IT 9003-06-9P, Acrylamide-acrylic acid copolymer 25085-02-3P,
Acrylamide-sodium acrylate copolymer 38808-69-4P,
Acrylamide-acrylic acid-itaconic acid copolymer 40623-73-2P
62649-23-4P, Acrylamide-acrylic acid-sodium acrylate copolymer
78474-98-3P, Acrylamide-2-acrylamide-2-methylpropanesulfonic
acid-acrylic acid copolymer 84233-77-2P 115426-14-7P
514225-71-9P 942054-57-1P,
Acrylamide-2-acrylamide-2-methylpropanesulfonic acid-itaconic
acid-sodium acrylate copolymer 942054-58-2P,
Acrylamide-2-acrylamide-2-methylpropanesulfonic acid-acrylic
acid-itaconic acid-sodium acrylate copolymer
942054-59-3P 942054-60-6P
942054-61-7P

RL: IMF (Industrial manufacture); PREP (Preparation)
(production of water-soluble anionic polymer
dispersions)

IT 7647-14-5, Sodium chloride, uses 7757-82-6, Sodium sulfate, uses
7783-20-2, Ammonium sulfate, uses 9003-01-4, Poly(acrylic acid)
9003-04-7, Poiz 530 9003-11-6D, Ethylene oxide-propylene oxide
copolymer, ethers 9005-38-3, Sodium alginate 9016-45-9
9086-60-6, Ammonium carboxymethyl cellulose 12125-02-9, Ammonium
chloride, uses 12778-04-0, Noigen EA 141 25086-62-8,
Sodium methacrylate homopolymer 25087-26-7,
Poly(methacrylic acid) 25322-68-3D, Poly(ethylene glycol),
alkylphenyl or alkyl ethers 25549-84-2, Sodium acrylate
homopolymer 27119-07-9, Poly(2-acrylamide-2-
methylpropanesulfonic acid) 35545-57-4, Solsperse 27000
60472-42-6, Poiz 520 60472-42-6, Poiz 521 83847-31-8, Poiz
532A 109265-72-7, Solsperse 20000 286956-86-3, Solsperse 24000
656236-92-9, Solsperse 43000 880082-76-8, Solsperse 44000
942205-64-3, Noigen ET 89 942205-66-5, Ramigen ET 20
942206-40-8, Noigen EA 135 942206-50-0, CA 100 (surfactant)

RL: NUU (Other use, unclassified); USES (Uses)
(production of water-soluble anionic polymer
dispersions)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L83 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:121602 HCAPLUS Full-text

DOCUMENT NUMBER: 144:194033

TITLE: Manufacture of deinked pulp and additives
therefor

INVENTOR(S): Fujiwara, Takahiro; Nakada, Tomohiko;
Hashiguchi, Yoshiharu

PATENT ASSIGNEE(S): Harima Chemicals, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2006037290	A	20060209	JP 2004-221108	2004 0729

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PRIORITY APPLN. INFO.: JP 2004-221108

2004
0729

10/594,519-309792-EIC SEARCH

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ED Entered STN: 09 Feb 2006

AB Deinked pulp is manufactured by addition of ~~H₂O-soluble~~ amphoteric copolymers with Mw 500,000-10,000,000 prepared by polymerization of (meth)acrylamide, cationic monomers, and anionic monomers to a pulp slurry after a flotation process and before dehydration of deinked pulp slurry, so that yield of ash content containing fillers derived from wastepaper can be improved. The cationic monomer of the additives is bis(quaternary ammonium salt)-containing (meth)acrylamide prepared by reaction of dimethylaminopropylacrylamide with 1-chloro-2-hydroxypropyltrimethylammonium chloride. Thus, an aqueous 50% acrylamide solution 114, an aqueous 80% acrylic acid solution 4.33, dimethylaminoethyl methacrylate 7.55, and methylenebisacrylamide 0.02 g were polymerized at 90° and pH 3.0 in Me₂CHOH/H₂O mixture in the presence of ammonium persulfate and further polymerized with addnl. 50% acrylamide solution 35.8, 80% acrylic acid solution 2.16, and dimethylaminoethyl methacrylate 3.77 g to give a 20.5% solid amphoteric polymer (Mw 2,800,000) solution. A 1% aqueous wastepaper pulp was deinked with deinking agent (Haritop P 100K) by a flotation method, mixed with 0.1% (to pulp) of the amphoteric polymer solution, dehydrated, and dried at 105° for 6 h to give pulp with ash yield 22.1%.

IT 108968-11-2P, Acrylamide-dimethylaminopropylacrylamide-itaconic acid copolymer 154261-80-0P, Acrylamide-dimethylacrylamide-dimethylaminoethyl methacrylate-itaconic acid copolymer 874888-84-3P, Acrylamide-acryloyloxyethyl dimethylbenzylammonium chloride-itaconic acid-methacrylonitrile copolymer 874888-86-5P, Acrylamide-dimethylaminopropylacrylamide-itaconic acid-sodium methallylsulfonate copolymer 874888-88-7P, Acrylamide-2-hydroxy-N,N,N',N'-pentamethyl-N'-[3-[(1-oxo-2-propenyl)amino]propyl]-1,3-propanediammonium dichloride-itaconic acid-methacrylonitrile-sodium methallylsulfonate copolymer 874888-90-1P, Acrylamide-diallyldimethylammonium chloride-dimethylacrylamide-itaconic acid-sodium methallylsulfonate copolymer
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PRP (Properties); PREP (Preparation); USES (Uses)
 (amphoteric polymers as additives in pulp deinking for improved ash yield)

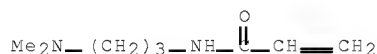
RN 108968-11-2 HCAPLUS

CN Butanedioic acid, methylene-, polymer with N-[3-(dimethylamino)propyl]-2-propenamide and 2-propenamide (CA INDEX NAME)

CM 1

CRN 3845-76-9

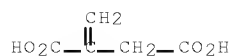
CMF C8 H16 N2 O



CM 2

CRN 97-65-4

CMF C5 H6 O4

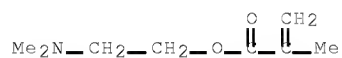


CM 3

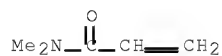
CRN 79-06-1
CMF C3 H5 N O

RN 154261-80-0 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with 2-(dimethylamino)ethyl
 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and
 2-propenamide (9CI) (CA INDEX NAME)

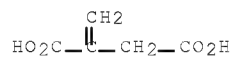
CM 1

CRN 2867-47-2
CMF C8 H15 N O2

CM 2

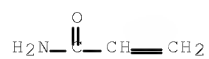
CRN 2680-03-7
CMF C5 H9 N O

CM 3

CRN 97-65-4
CMF C5 H6 O4

CM 4

CRN 79-06-1
CMF C3 H5 N O

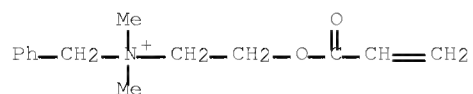


RN 874888-84-3 HCAPLUS
 CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with methylenebutanedioic acid, 2-methyl-2-propenenitrile and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 46830-22-2

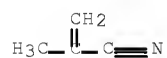
CMF C14 H20 N O2 . Cl



CM 2

CRN 126-98-7

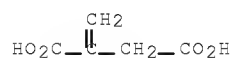
CMF C4 H5 N



CM 3

CRN 97-65-4

CMF C5 H6 O4



CM 4

CRN 79-06-1

CMF C3 H5 N O

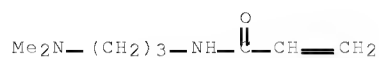


10/594,519-309792-EIC SEARCH

RN 874888-86-5 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with
 N-[3-(dimethylamino)propyl]-2-propenamide, 2-propenamide and
 sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

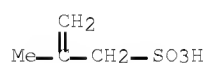
CM 1

CRN 3845-76-9
 CMF C8 H16 N2 O



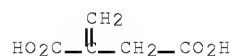
CM 2

CRN 1561-92-8
 CMF C4 H8 O3 S . Na



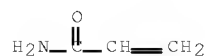
CM 3

CRN 97-65-4
 CMF C5 H6 O4



CM 4

CRN 79-06-1
 CMF C3 H5 N O



RN 874888-88-7 HCAPLUS
 CN 1,3-Propanediaminium, 2-hydroxy-N,N,N',N'-pentamethyl-N'-[3-[(1-oxo-2-propenyl)amino]propyl]-, dichloride, polymer with
 methylenebutanedioic acid, 2-methyl-2-propenenitrile,

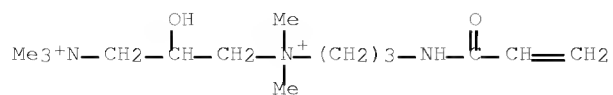
10/594,519-309792-EIC SEARCH

2-propenamide and sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 110226-36-3

CMF C14 H31 N3 O2 . 2 Cl

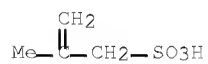


● 2 Cl-

CM 2

CRN 1561-92-8

CMF C4 H8 O3 S . Na

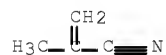


● Na

CM 3

CRN 126-98-7

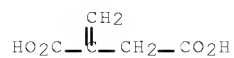
CMF C4 H5 N



CM 4

CRN 97-65-4

CMF C5 H6 O4



CM 5

CRN 79-06-1

10/594,519-309792-EIC SEARCH

CMF C3 H5 N O



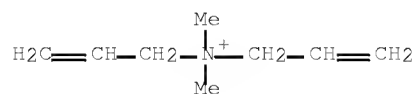
RN 874888-90-1 HCAPLUS

CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with N,N-dimethyl-2-propenamide, methylenebutanedioic acid, 2-propenamide and sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 7398-69-8

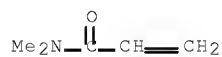
CMF C8 H16 N . Cl



CM 2

CRN 2680-03-7

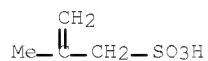
CMF C5 H9 N O



CM 3

CRN 1561-92-8

CMF C4 H8 O3 S . Na



CM 4

CRN 97-65-4

CMF C5 H6 O4



CM 5

CRN 79-06-1

CMF C3 H5 N O



CC 43-6 (Cellulose, Lignin, Paper, and Other Wood Products)
 IT 59765-66-1P, Acrylamide-acrylic acid-dimethylaminoethyl
 methacrylate-methylenebisacrylamide copolymer
 108868-11-2P, Acrylamide-dimethylaminopropylacrylamide-
 itaconic acid copolymer 134261-80-0P,
 Acrylamide-dimethylacrylamide-dimethylaminoethyl
 methacrylate-itaconic acid copolymer 874888-82-1P,
 Acrylamide-dimethylacrylamide-dimethylaminoethyl
 methacrylate-fumaric acid-
 methacryloyloxyethyl dimethylbenzylammonium chloride-sodium
 methallylsulfonate copolymer 874888-84-3P,
 Acrylamide-acryloyloxyethyl dimethylbenzylammonium
 chloride-itaconic acid-methacrylonitrile copolymer
 874888-86-5P, Acrylamide-dimethylaminopropylacrylamide-
 itaconic acid-sodium methallylsulfonate copolymer
 874888-88-7P, Acrylamide-2-hydroxy-N,N,N',N'-pentamethyl-
 N'-[3-[(1-oxo-2-propenyl)amino]propyl]-1,3-propanediammonium
 dichloride-itaconic acid-methacrylonitrile-sodium
 methallylsulfonate copolymer 874888-90-1P,
 Acrylamide-diallyldimethylammonium
 chloride-dimethylacrylamide-itaconic acid-sodium
 methallylsulfonate copolymer
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PRP (Properties); PREP (Preparation); USES (Uses)
 (amphoteric polymers as additives in pulp deinking for improved
 ash yield)

L83 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:781869 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:268606
 TITLE: Ink jet recording method by using pigment ink
 and additional processing solution
 INVENTOR(S): Nakatsu, Hiromi; Kamoto, Takanori; Suzuki,
 Kiyota; Tsubaki, Yori-hisa; Aoki, Momomi
 PATENT ASSIGNEE(S): Sharp Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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10/594,519-309792-EIC SEARCH

JP 2004262081

A

20040924

JP 2003-54503

2003

0228

<--

PRIORITY APPLN. INFO.:

JP 2003-54503

2003

0228

<--

ED Entered STN: 24 Sep 2004

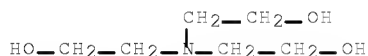
AB Images are formed by (1) jetting ink comprising at least a self-dispersing pigment surface-treated with carboxylic acid or sulfonic acid group, water, an alkali soluble resin ≥ 5 weight%, and an alkaline agent on a recording material and (2) coating the material with a solution containing a water soluble resin with an acidic group and water or applying the solution on it, before, simultaneously, or after recording, resp. The method prevents bleeding, color mixture, and ink penetration to a backside, showing high image d. and improved resistance to abrasion, water, and light.

IT 102-71-8, Triethanolamine, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(ink jet recording method by using pigment ink and addnl. processing solution)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



IT 25948-33-8, Acrylic acid-itaconic acid copolymer

RL: TEM (Technical or engineered material use); USES (Uses)
(processing solution containing; ink jet recording method by using pigment ink and addnl. processing solution)

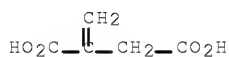
RN 25948-33-8 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with 2-propenoic acid (CA INDEX NAME)

CM 1

CRN 97-65-4

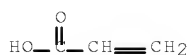
CMF C5 H6 O4



CM 2

CRN 79-10-7

CMF C3 H4 O2



IC ICM B41M005-00

ICS B41J002-01; C09D011-00

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and

10/594,519-309792-EIC SEARCH

Other Reprographic Processes)

- IT 56-81-5, Glycerin, uses 100-42-5D, Styrene, acrylic polymers
~~102-71-8~~, Triethanolamine, uses 111-46-6, Diethylene
glycol, uses 112-34-5, Diethylene glycol monobutyl ether
143-22-6, Triethylene glycol monobutyl ether 1559-34-8,
Tetraethylene glycol monobutyl ether 5343-92-0, 1,2-Pentanediol
6920-22-5, 1,2-Hexanediol 7732-18-5, Water, uses 222961-29-7,
Cab O jet 200
RL: TEM (Technical or engineered material use); USES (Uses)
(ink jet recording method by using pigment ink and addnl.
processing solution)
- IT 67-63-0, Isopropyl alcohol, uses ~~25948-33-8~~, Acrylic
acid-itaconic acid copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(processing solution containing; ink jet recording method by using
pigment ink and addnl. processing solution)

L83 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:700706 HCAPLUS Full-text

DOCUMENT NUMBER: 141:208656

TITLE: ~~Water-soluble~~ polymer
coatings showing good gas barrier property in
high humidity condition and plastics coated
with them

INVENTOR(S): Kamoshita, Miyuki

PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

DOCUMENT TYPE: ~~Patent~~

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 2004238605	A	20040826	JP 2003-105899	2003 0409

PRIORITY APPLN. INFO.: <-- JP 2002-356849 A 2002
1209

<--

ED Entered STN: 27 Aug 2004

AB The coatings contain (A) (A1) CO₂H- and epoxy-free polymers manufactured from
ethylenically unsatd. monomers bearing OH and/or (A2) CO₂H-free copolymers manufactured
from ethylenically unsatd. monomers bearing OH and ethylenically unsatd. monomers
bearing epoxy groups, and (B) OH-free polymers manufactured from ethylenically unsatd.
monomers bearing CO₂H or acid anhydride groups at CO₂H/OH molar ratio 0.05-100. The
coated plastics are useful for packaging materials. Thus, a stretched PET film was
coated with a primer containing Vylon 200 (polyester) and Sumidur 3300
(polyisocyanate), dried, coated with an aqueous solution containing Blemmer GLM
(glycerin methacrylate) and poly(acrylic acid) Na salt at CO₂H/OH molar ratio 4.42,
dried, and heated, showing O permeability 1.12 cm³/m²-24 h-atm at 25° and relative
humidity 80%.

IT ~~26099-89-8P~~ 741708-91-8P

RL: IMF (Industrial manufacture); POF (Polymer in formulation);
RCT (Reactant); TEM (Technical or engineered material use); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(~~water-soluble~~ polymer coatings showing good
gas barrier property in high humidity condition for plastic
substrates)

RN 26099-89-8 HCAPLUS

CN Butanedioic acid, 2-methylene-, homopolymer, sodium salt (CA
INDEX NAME)

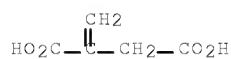
10/594,519-309792-EIC SEARCH

CM 1

CRN 25119-64-6
 CMF (C5 H6 O4)x
 CCI PMS

CM 2

CRN 97-65-4
 CMF C5 H6 O4



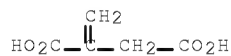
RN 741708-91-8 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with 2-propenoic acid,
 ammonium sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 25948-33-8
 CMF (C5 H6 O4 . C3 H4 O2)x
 CCI PMS

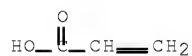
CM 2

CRN 97-65-4
 CMF C5 H6 O4



CM 3

CRN 79-10-7
 CMF C3 H4 O2



IT 741280-58-0P 741280-59-1P
 741708-90-7P 741708-93-0P
 741708-94-1P 741709-02-4P
 741709-06-8P 741709-08-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (water-soluble polymer coatings showing good
 gas barrier property in high humidity condition for plastic substrates)

RN 741280-58-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol,
 polymer with 4-hydroxybutyl 2-propenoate and 2-propenoic acid,
 sodium salt (9CI) (CA INDEX NAME)

10/594,519-309792-EIC SEARCH

CM 1

CRN 741280-57-9

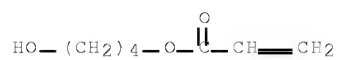
CMF (C7 H12 O4 . C7 H12 O3 . C3 H4 O2)x

CCI PMS

CM 2

CRN 2478-10-6

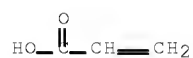
CMF C7 H12 O3



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 50853-28-6

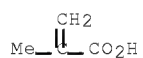
CMF C7 H12 O4

CCI IDS

CM 5

CRN 79-41-4

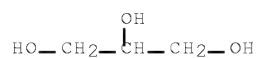
CMF C4 H6 O2



CM 6

CRN 56-81-5

CMF C3 H8 O3



RN 741280-59-1 HCAPLUS

10/594,519-309792-EIC SEARCH

CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol,
polymer with oxiranylmethyl 2-methyl-2-propenoate and 2-propenoic
acid, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 160896-37-7

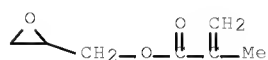
CMF (C7 H12 O4 . C7 H10 O3 . C3 H4 O2)x

CCI PMS

CM 2

CRN 106-91-2

CMF C7 H10 O3



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 50853-28-6

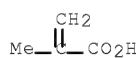
CMF C7 H12 O4

CCI IDS

CM 5

CRN 79-41-4

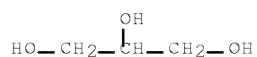
CMF C4 H6 O2



CM 6

CRN 56-81-5

CMF C3 H8 O3



10/594,519-309792-EIC SEARCH

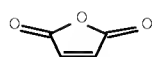
RN 741708-90-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol,
 polymer with ethene and 2,5-furandione, sodium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 741708-89-4
 CMF (C7 H12 O4 . C4 H2 O3 . C2 H4)x
 CCI PMS

CM 2

CRN 108-31-6
 CMF C4 H2 O3



CM 3

CRN 74-85-1
 CMF C2 H4

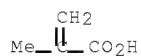


CM 4

CRN 50853-28-6
 CMF C7 H12 O4
 CCI IDS

CM 5

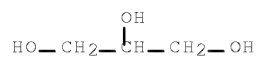
CRN 79-41-4
 CMF C4 H6 O2



CM 6

CRN 56-81-5
 CMF C3 H8 O3

10/594,519-309792-EIC SEARCH



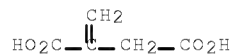
RN 741708-93-0 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with 1,2,3-propanetriol
 mono(2-methyl-2-propenoate) and 2-propenoic acid, ammonium sodium
 salt (9CI) (CA INDEX NAME)

CM 1

CRN 741708-92-9
 CMF (C7 H12 O4 . C5 H6 O4 . C3 H4 O2)x
 CCI PMS

CM 2

CRN 97-65-4
 CMF C5 H6 O4



CM 3

CRN 79-10-7
 CMF C3 H4 O2

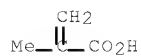


CM 4

CRN 50853-28-6
 CMF C7 H12 O4
 CCI IDS

CM 5

CRN 79-41-4
 CMF C4 H6 O2

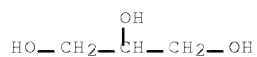


CM 6

CRN 56-81-5

10/594,519-309792-EIC SEARCH

CMF C3 H8 O3



RN 741708-94-1 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 1,2,3-propanetriol mono(2-methyl-2-propenoate) and 2-propenoic acid, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 741708-92-9

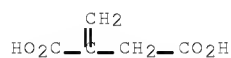
CMF (C7 H12 O4 . C5 H6 O4 . C3 H4 O2)x

CCI PMS

CM 2

CRN 97-65-4

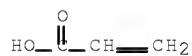
CMF C5 H6 O4



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 50853-28-6

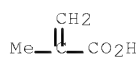
CMF C7 H12 O4

CCI IDS

CM 5

CRN 79-41-4

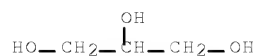
CMF C4 H6 O2



10/594,519-309792-EIC SEARCH

CM 6

CRN 56-81-5
CMF C3 H8 O3



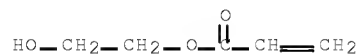
RN 741709-02-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol,
polymer with ethene, 2,5-furandione and 2-hydroxyethyl
2-propenoate, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 741709-01-3
CMF (C7 H12 O4 . C5 H8 O3 . C4 H2 O3 . C2 H4)x
CCI PMS

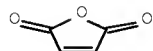
CM 2

CRN 818-61-1
CMF C5 H8 O3



CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

CRN 74-85-1
CMF C2 H4



CM 5

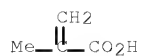
CRN 50853-28-6
CMF C7 H12 O4

10/594,519-309792-EIC SEARCH

CCI IDS

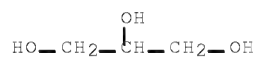
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 56-81-5
CMF C3 H8 O3



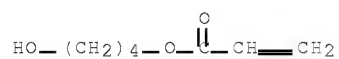
RN 741709-06-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol,
polymer with ethene, 2,5-furandione and 4-hydroxybutyl
2-propenoate, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 741709-05-7
CMF (C7 H12 O4 . C7 H12 O3 . C4 H2 O3 . C2 H4)x
CCI PMS

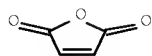
CM 2

CRN 2478-10-6
CMF C7 H12 O3



CM 3

CRN 108-31-6
CMF C4 H2 O3



CM 4

10/594,519-309792-EIC SEARCH

CRN 74-85-1
CMF C2 H4

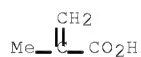


CM 5

CRN 50853-28-6
CMF C7 H12 O4
CCI IDS

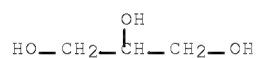
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 56-81-5
CMF C3 H8 O3



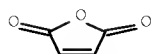
RN 741709-08-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, monoester with 1,2,3-propanetriol,
polymer with ethene, 2,5-furandione and oxiranylmethyl
2-methyl-2-propenoate, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 741709-07-9
CMF (C7 H12 O4 . C7 H10 O3 . C4 H2 O3 . C2 H4)x
CCI PMS

CM 2

CRN 108-31-6
CMF C4 H2 O3

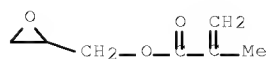


10/594,519-309792-EIC SEARCH

CM 3

CRN 106-91-2

CMF C7 H10 O3



CM 4

CRN 74-85-1

CMF C2 H4



CM 5

CRN 50853-28-6

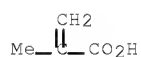
CMF C7 H12 O4

CCI IDS

CM 6

CRN 79-41-4

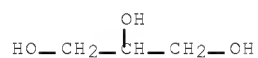
CMF C4 H6 O2



CM 7

CRN 56-81-5

CMF C3 H8 O3



IC ICM C09D133-14

ICS B05D007-02; B05D007-24; B32B027-30; C09D133-02; C09D157-10

CC 42-7 (Coatings, Inks, and Related Products)

Section cross-reference(s): 38

ST water soluble polymer coating gas barrier; gas barrier coating packaging PET film; glycerin methacrylate acrylic acid copolymer gas barrier coating

IT Packaging materials

10/594,519-309792-EIC SEARCH

(films, gas-impermeable; water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT Coating materials
(gas-impermeable; water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT Polyurethanes, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyester-, primers; water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT Polyesters, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT 516514-65-1P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(primer; water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT 25038-59-9, Poly(ethylene terephthalate), uses
RL: TEM (Technical or engineered material use); USES (Uses)
(substrate films; water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT 9003-04-7P, Acrylic acid homopolymer sodium salt 9019-67-4P
26022-14-0P 26033-88-8P 28258-28-8P 29086-87-1P,
4-Hydroxybutyl acrylate homopolymer 130315-91-2P 138305-48-3P
741708-91-8P 741709-04-6P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

IT 741280-53-5P 741280-58-0P 741280-59-1P
741708-90-7P 741708-93-0P
741708-94-1P 741708-98-5P 741709-00-2P
741709-02-4P 741709-06-8P
741709-08-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(water-soluble polymer coatings showing good gas barrier property in high humidity condition for plastic substrates)

L83 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:390974 HCAPLUS Full-text

DOCUMENT NUMBER: 140:408516

TITLE: Use of a copolymer having at least one an alkoxy- or hydroxypolyoxyalkylene grafted function for improving optical brightener activity, and products obtained therefrom

INVENTOR(S): Dupont, Francois; Jacquemet, Christian; Suau, Jean Marc; Mongoin, Jacques

PATENT ASSIGNEE(S): Coatex, Fr.

SOURCE: Fr. Demande, 111 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

10/594,519-309792-EIC SEARCH

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
FR 2846978	A1	20040514	FR 2002-14000	2002 1108
			<--	
FR 2846978	B1	20070518		
CA 2505099	A1	20040527	CA 2003-2505099	2003 1105
			<--	
WO 2004044022	A1	20040527	WO 2003-FR3300	2003 1105
			<--	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003292345	A1	20040603	AU 2003-292345	2003 1105
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BR 2003015301	A	20050816	BR 2003-15301	2003 1105
			<--	
EP 1565504	A1	20050824	EP 2003-767912	2003 1105
			<--	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1717425	A	20060104	CN 2003-80104504	2003 1105
			<--	
CN 100480292	C	20090422		
JP 2006505707	T	20060216	JP 2004-550741	2003 1105
			<--	
ZA 2005003918	A	20070328	ZA 2005-3918	2003 1105
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MX 2005004816	A	20050722	MX 2005-4816	2005 0504
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IN 2005MN00389	A	20050930	IN 2005-MN389	2005 0506
			<--	
NO 2005002759	A	20050805	NO 2005-2759	2005 0607

10/594,519-309792-EIC SEARCH

US 20060106186 A1 20060518 US 2005-533794
2005
1004

PRIORITY APPLN. INFO.: FR 2002-14000 A
2002
1108

WO 2003-FR3300 W
2003
1105

ED Entered STN: 14 May 2004

AB Water-soluble polymers based on ethylenically unsatd. monomers and unsatd. derivs. of alkoxy- or hydroxypolyoxyalkylenes such as 13.5:3.5:83 (%) acrylic acid-methacrylic acid-polyethylene glycol mono-Me ether methacrylate graft copolymer Na salt are useful for activating optical brighteners in paper coatings, textiles, detergents, and paints.

IT 221882-30-0, Ethylene oxide-methacrylic acid graft copolymer methyl ether sodium salt 256511-28-1, Acrylic acid-ethylene oxide-methacrylic acid graft copolymer methyl ether sodium salt 382162-06-3 382162-09-6 382162-32-5 382162-40-5 382162-56-3, Acrylic acid-ethylene oxide-methacrylic acid graft copolymer methyl ether triethanolamine salt 382162-62-1 382162-65-4 690210-47-0 690210-48-1 690210-50-5 690210-54-9 690210-57-2 690210-61-8 690210-70-9

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(comprised actual and assumed monomers; use of alkoxy- or hydroxypolyoxyalkylene-grafted acrylic polymers for improving optical brightener activity in paper coatings, textiles, detergents, and paints)

RN 221882-30-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane, methyl ether, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H₃C—OH

CM 2

CRN 167763-01-1

CMF (C4 H6 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

CMF C4 H6 O2

CH₂
Me—C—CO₂H

10/594,519-309792-EIC SEARCH

CM 4

CRN 75-21-8

CMF C2 H4 O



RN 256511-28-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

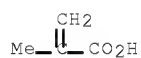
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

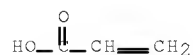
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 382162-06-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,
 oxirane and 2-propenoic acid, methyl ether, graft, sodium salt
 (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 256511-25-8

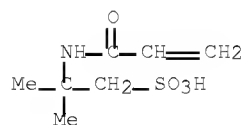
CMF (C7 H13 N O4 S . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 15214-89-8

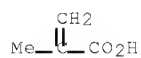
CMF C7 H13 N O4 S



CM 4

CRN 79-41-4

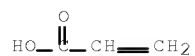
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 382162-09-6 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-methyl-2-propenoic acid, oxirane and 2-propenoic acid, methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 382162-08-5

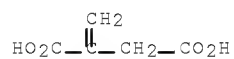
CMF (C5 H6 O4 . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 97-65-4

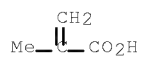
CMF C5 H6 O4



CM 4

CRN 79-41-4

CMF C4 H6 O2

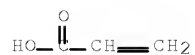


10/594,519-309792-EIC SEARCH

CM 5

CRN 79-10-7

CMF C3 H4 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 382162-32-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, potassium salt (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

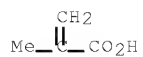
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

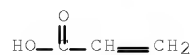
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 382162-40-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

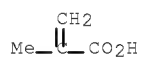
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O) x

CCI PMS

CM 3

CRN 79-41-4

CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



10/594,519-309792-EIC SEARCH

CM 5

CRN 75-21-8

CMF C2 H4 O



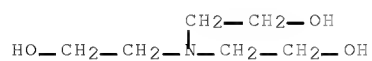
RN 382162-56-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 381164-42-7

CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x . x C H4 O

CM 3

CRN 67-56-1

CMF C H4 O



CM 4

CRN 159106-91-9

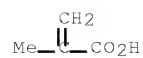
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 5

CRN 79-41-4

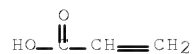
CMF C4 H6 O2



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CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 75-21-8
CMF C2 H4 O



RN 382162-62-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, calcium sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O

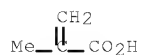


CM 2

CRN 159106-91-9
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

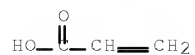
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 382162-65-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, magnesium sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

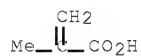
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

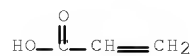
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



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CM 5

CRN 75-21-8

CMF C2 H4 O



RN 690210-47-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenyltriethoxysilane, oxirane and 2-propenoic acid, methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 690210-46-9

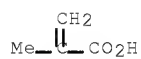
CMF (C8 H18 O3 Si . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

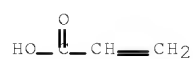
CMF C4 H6 O2



CM 4

CRN 79-10-7

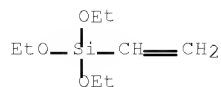
CMF C3 H4 O2



CM 5

10/594,519-309792-EIC SEARCH

CRN 78-08-0
CMF C8 H18 O3 Si



CM 6

CRN 75-21-8
CMF C2 H4 O



RN 690210-48-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with oxirane, 2-propenoic acid and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O

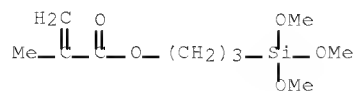


CM 2

CRN 689267-94-5
CMF (C10 H20 O5 Si . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

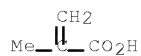
CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si



CM 4

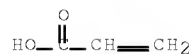
CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 690210-50-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-
heneicosafuorododecyl 2-propenoate, oxirane and 2-propenoic acid,
methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 690210-49-2

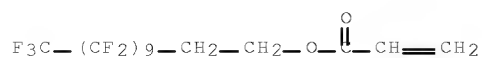
CMF (C15 H7 F21 O2 . C4 H6 O2 . C3 H4 O2 . C2 H4 O) x

CCI PMS

CM 3

CRN 17741-60-5

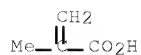
CMF C15 H7 F21 O2



10/594,519-309792-EIC SEARCH

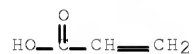
CM 4

CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



CM 6

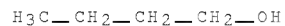
CRN 75-21-8
CMF C2 H4 O



RN 690210-54-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,2-ethanediyl
bis(2-methyl-2-propenoate), methyloxirane, oxirane and 2-propenoic
acid, butyl methyl ether, graft, sodium salt (9CI) (CA INDEX
NAME)

CM 1

CRN 71-36-3
CMF C4 H10 O



CM 2

CRN 67-56-1
CMF C H4 O

10/594,519-309792-EIC SEARCH



CM 3

CRN 690210-53-8

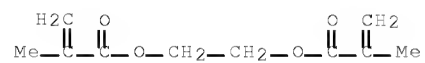
CMF (C10 H14 O4 . C4 H6 O2 . C3 H6 O . C3 H4 O2 . C2 H4 O) x

CCI PMS

CM 4

CRN 97-90-5

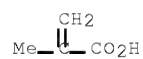
CMF C10 H14 O4



CM 5

CRN 79-41-4

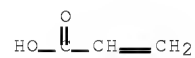
CMF C4 H6 O2



CM 6

CRN 79-10-7

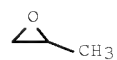
CMF C3 H4 O2



CM 7

CRN 75-56-9

CMF C3 H6 O



CM 8

10/594,519-309792-EIC SEARCH

CRN 75-21-8
CMF C2 H4 O



RN 690210-57-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with oxirane, 2-propenamide
and 2-propenoic acid, methyl ether, graft, sodium salt (CA INDEX
NAME)

CM 1

CRN 67-56-1
CMF C H4 O

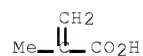


CM 2

CRN 245651-29-0
CMF (C4 H6 O2 . C3 H5 N O . C3 H4 O2 . C2 H4 O)x
CCI PMS

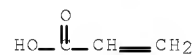
CM 3

CRN 79-41-4
CMF C4 H6 O2



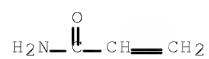
CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 79-06-1
CMF C3 H5 N O



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 690210-61-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl
2-methyl-2-propenoate phosphate, oxirane and 2-propenoic acid,
methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 690210-60-7

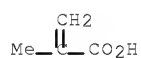
CMF (C6 H10 O3 . C4 H6 O2 . C3 H4 O2 . C2 H4 O . x H3 O4 P)x

CCI PMS

CM 3

CRN 79-41-4

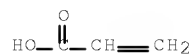
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



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CM 5

CRN 75-21-8

CMF C2 H4 O



CM 6

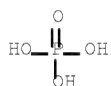
CRN 52628-03-2

CMF C6 H10 O3 . x H3 O4 P

CM 7

CRN 7664-38-2

CMF H3 O4 P



CM 8

CRN 868-77-9

CMF C6 H10 O3



RN 690210-70-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl)silyl]-
 ω -[[dimethyl[3-[(2-methyl-1-oxo-2-
propenyl)oxy]propyl)silyl]oxy]poly[oxy(dimethylsilylene)],
methyloxirane, oxirane and 2-propenoic acid, methyl ether, graft,
sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



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CM 2

CRN 690210-69-6

CMF (C4 H6 O2 . C3 H6 O . C3 H4 O2 . (C2 H6 O Si)n C18 H34 O5 Si2 . C2 H4 O)x

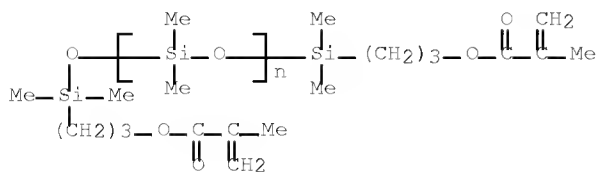
CCI PMS

CM 3

CRN 58130-03-3

CMF (C2 H6 O Si)n C18 H34 O5 Si2

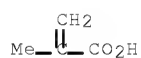
CCI PMS



CM 4

CRN 79-41-4

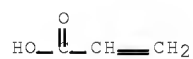
CMF C4 H6 O2



CM 5

CRN 79-10-7

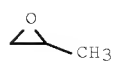
CMF C3 H4 O2



CM 6

CRN 75-56-9

CMF C3 H6 O



CM 7

10/594,519-309792-EIC SEARCH

CRN 75-21-8
CMF C2 H4 O



IT 221881-27-2, Methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt
381686-32-4, 2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt
381686-34-6, Acrylic acid-itaconic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt
381686-36-8, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt
381686-43-9, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer potassium salt
381686-46-0, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer ammonium salt
381686-47-1, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer triethanolamine salt
381686-50-6, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer calcium sodium salt
381686-51-7, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer magnesium sodium salt
688810-67-5, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate-vinyltriethoxysilane graft copolymer sodium salt
688810-69-7, Acrylic acid-methacrylic acid-3-(methacryloyloxy)propyltrimethoxysilane-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt
688810-71-1, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate-2-(perfluorodecyl)ethyl acrylate graft copolymer sodium salt
688810-73-3, Acrylamide-acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt
690210-52-7 690210-56-1 690210-59-4
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(use of alkoxy- or hydroxypolyoxyalkylene-grafted acrylic polymers for improving optical brightener activity in paper coatings, textiles, detergents, and paints)

RN 221881-27-2 HCAPLUS

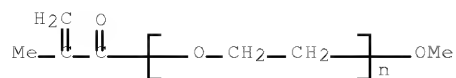
CN 2-Propenoic acid, 2-methyl-, polymer with α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl), graft, sodium salt (CA INDEX NAME)

CM 1

CRN 111740-39-7
CMF (C4 H6 O2 . (C2 H4 O)n C5 H8 O2)x
CCI PMS

CM 2

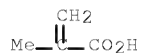
CRN 26915-72-0
CMF (C2 H4 O)n C5 H8 O2
CCI PMS



CM 3

CRN 79-41-4

CMF C4 H6 O2



RN 381686-32-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-
 ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 381686-31-3

CMF (C7 H13 N O4 S . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

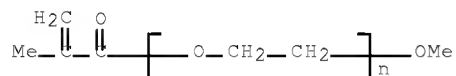
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

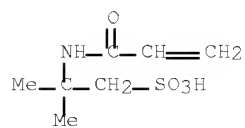
CCI PMS



CM 3

CRN 15214-89-8

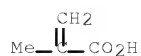
CMF C7 H13 N O4 S



CM 4

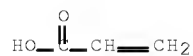
10/594,519-309792-EIC SEARCH

CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



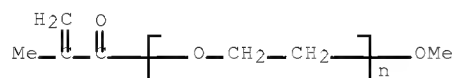
RN 381686-34-6 HCAPLUS
CN Butanedioic acid, methylene-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), 2-methyl-2-propenoic acid and 2-propenoic acid,
graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-33-5
CMF (C5 H6 O4 . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x
CCI PMS

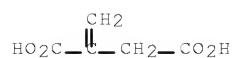
CM 2

CRN 26915-72-0
CMF (C2 H4 O)_n C5 H8 O2
CCI PMS



CM 3

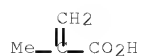
CRN 97-65-4
CMF C5 H6 O4



CM 4

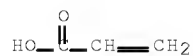
10/594,519-309792-EIC SEARCH

CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



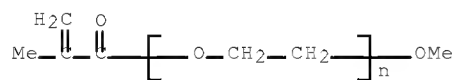
RN 381686-36-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 381686-35-7
CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x
CCI PMS

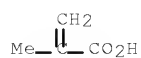
CM 2

CRN 26915-72-0
CMF (C2 H4 O)_n C5 H8 O2
CCI PMS



CM 3

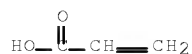
CRN 79-41-4
CMF C4 H6 O2



CM 4

10/594,519-309792-EIC SEARCH

CRN 79-10-7
CMF C3 H4 O2



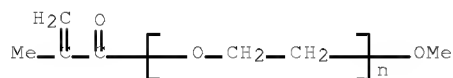
RN 381686-45-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, potassium salt (CA INDEX NAME)

CM 1

CRN 381686-35-7
CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x
CCI PMS

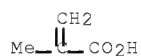
CM 2

CRN 26915-72-0
CMF (C2 H4 O)_n C5 H8 O2
CCI PMS



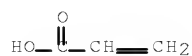
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



RN 381686-46-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with

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α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

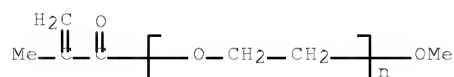
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

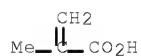
CCI PMS



CM 3

CRN 79-41-4

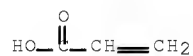
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



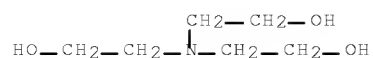
RN 381686-47-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 102-71-6

CMF C6 H15 N O3



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CM 2

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

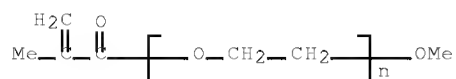
CCI PMS

CM 3

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

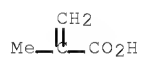
CCI PMS



CM 4

CRN 79-41-4

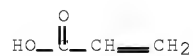
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 381686-50-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, calcium sodium salt (9CI)
 (CA INDEX NAME)

CM 1

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

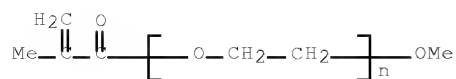
CCI PMS

CM 2

CRN 26915-72-0

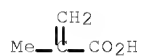
10/594,519-309792-EIC SEARCH

CMF (C2 H4 O)n C5 H8 O2
CCI PMS



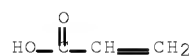
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



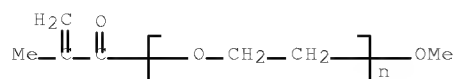
RN 381686-51-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, magnesium sodium salt
(9CI) (CA INDEX NAME)

CM 1

CRN 381686-35-7
CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x
CCI PMS

CM 2

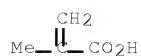
CRN 26915-72-0
CMF (C2 H4 O)n C5 H8 O2
CCI PMS



CM 3

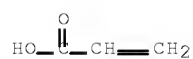
10/594,519-309792-EIC SEARCH

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



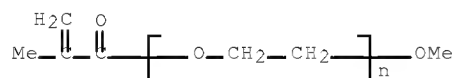
RN 688810-67-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with ethenyltriethoxysilane,
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 688810-66-4
CMF (C8 H18 O3 Si . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x
CCI PMS

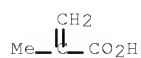
CM 2

CRN 26915-72-0
CMF (C2 H4 O)n C5 H8 O2
CCI PMS



CM 3

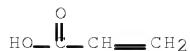
CRN 79-41-4
CMF C4 H6 O2



CM 4

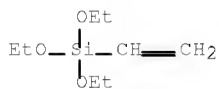
10/594,519-309792-EIC SEARCH

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 78-08-0
CMF C8 H18 O3 Si



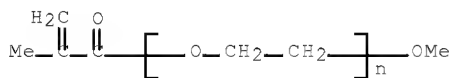
RN 688810-69-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), 2-propenoic acid and 3-(trimethoxysilyl)propyl
2-methyl-2-propenoate, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 688810-68-6
CMF (C10 H20 O5 Si . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x
CCI PMS

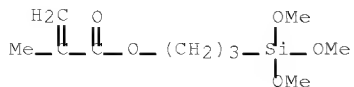
CM 2

CRN 26915-72-0
CMF (C2 H4 O)_n C5 H8 O2
CCI PMS



CM 3

CRN 2530-85-0
CMF C10 H20 O5 Si

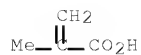


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-41-4

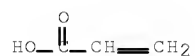
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 688810-71-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-
 heneicosafuorododecyl 2-propenoate,
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-
 ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 688810-70-0

CMF (C15 H7 F21 O2 . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

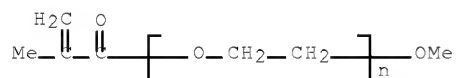
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

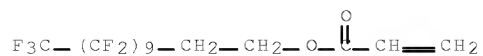
CCI PMS



CM 3

CRN 17741-60-5

CMF C15 H7 F21 O2

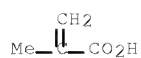


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-41-4

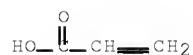
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 688810-73-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl), 2-propenamide and 2-propenoic acid, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 688810-72-2

CMF (C4 H6 O2 . C3 H5 N O . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x

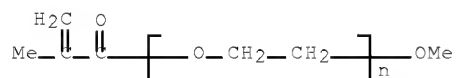
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

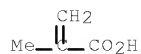
CCI PMS



CM 3

CRN 79-41-4

CMF C4 H6 O2

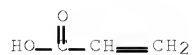


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



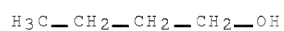
RN 690210-52-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,2-ethanediyl
bis(2-methyl-2-propenoate), methyloxirane,
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-
ethanediyl), oxirane and 2-propenoic acid, butyl ether, block,
graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 71-36-3

CMF C4 H10 O



CM 2

CRN 690210-51-6

CMF (C10 H14 O4 . C4 H6 O2 . C3 H6 O . C3 H4 O2 . (C2 H4 O)n C5
H8 O2 . C2 H4 O)x

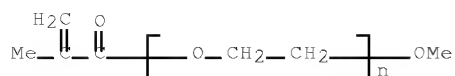
CCI PMS

CM 3

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

CCI PMS

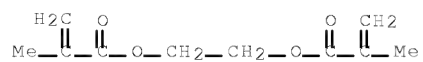


10/594,519-309792-EIC SEARCH

CM 4

CRN 97-90-5

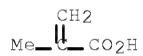
CMF C10 H14 O4



CM 5

CRN 79-41-4

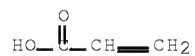
CMF C4 H6 O2



CM 6

CRN 79-10-7

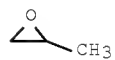
CMF C3 H4 O2



CM 7

CRN 75-56-9

CMF C3 H6 O



CM 8

CRN 75-21-8

CMF C2 H4 O



10/594,519-309792-EIC SEARCH

RN 690210-56-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 α -[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω -[[dimethyl[3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propyl]silyl]oxy]poly[oxy(dimethylsilylene)],
 methyloxirane, α -(2-methyl-1-oxo-2-propenyl)- ω -
 methoxypoly(oxy-1,2-ethanediyl), oxirane and 2-propenoic acid,
 methyl ether, block, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H3C—OH

CM 2

CRN 690210-55-0

CMF (C4 H6 O2 . C3 H6 O . C3 H4 O2 . (C2 H6 O Si)n C18 H34 O5 Si2
 . (C2 H4 O)n C5 H8 O2 . C2 H4 O)x

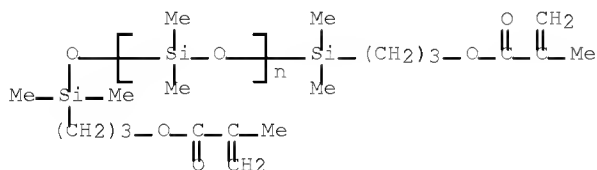
CCI PMS

CM 3

CRN 58130-03-3

CMF (C2 H6 O Si)n C18 H34 O5 Si2

CCI PMS

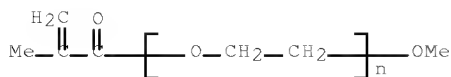


CM 4

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

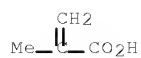
CCI PMS



CM 5

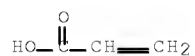
10/594,519-309792-EIC SEARCH

CRN 79-41-4
CMF C4 H6 O2



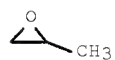
CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 75-56-9
CMF C3 H6 O



CM 8

CRN 75-21-8
CMF C2 H4 O



RN 690210-59-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl
2-methyl-2-propenoate phosphate,
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-
ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI) (CA
INDEX NAME)

CM 1

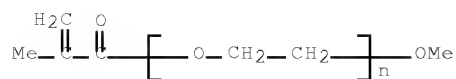
CRN 690210-58-3
CMF (C6 H10 O3 . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2 . x H3
O4 P)x
CCI PMS

CM 2

CRN 26915-72-0

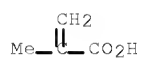
10/594,519-309792-EIC SEARCH

CMF (C2 H4 O)_n C5 H8 O2
CCI PMS



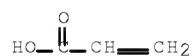
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2

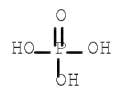


CM 5

CRN 52628-03-2
CMF C6 H10 O3 . x H3 O4 P

CM 6

CRN 7664-38-2
CMF H3 O4 P



CM 7

CRN 868-77-9
CMF C6 H10 O3



IC ICM D21H021-32
ICS D21H019-36; D06L003-00; C11D003-37; C11D003-42; C08F290-14

CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
Section cross-reference(s): 40, 42, 46

IT 221882-30-0, Ethylene oxide-methacrylic acid graft copolymer methyl ether sodium salt 256335-43-0, Acrylic acid-ethylene oxide graft copolymer methyl ether sodium salt 256331-28-1, Acrylic acid-ethylene oxide-methacrylic acid graft copolymer methyl ether sodium salt 291536-23-7, Acrylic acid-ethyl acrylate-ethylene oxide graft copolymer methyl ether sodium salt 381164-42-7 382162-06-3 382162-09-6 382162-32-5 382162-40-5 382162-56-3, Acrylic acid-ethylene oxide-methacrylic acid graft copolymer methyl ether triethanolamine salt 382162-62-1 382162-65-4 690210-47-0 690210-48-1 690210-50-5 690210-54-9 690210-57-2 690210-61-8 690210-63-0 690210-70-9 690224-11-4
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(comprised actual and assumed monomers; use of alkoxy- or hydroxypolyoxyalkylene-grafted acrylic polymers for improving optical brightener activity in paper coatings, textiles, detergents, and paints)

IT 221881-27-2, Methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt 381686-32-4, 2-Acrylamido-2-methylpropanesulfonic acid-acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt 381686-34-6, Acrylic acid-itaconic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt 381686-35-7, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer 381686-36-8, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt 381686-45-9, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer potassium salt 381686-46-0, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer ammonium salt 381686-47-1, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer triethanolamine salt 381686-50-6, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer calcium sodium salt 381686-51-7, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer magnesium sodium salt 688810-65-3 688810-67-5, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate-vinyltriethoxysilane graft copolymer sodium salt 688810-69-7, Acrylic acid-methacrylic acid-3-(methacryloyloxy)propyltrimethoxysilane-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt 688810-71-1, Acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate-2-(perfluorodecyl)ethyl acrylate graft copolymer sodium salt 688810-73-3, Acrylamide-acrylic acid-methacrylic acid-polyethylene glycol methyl ether methacrylate graft copolymer sodium salt 688810-74-4 690210-52-7 690210-56-1 690210-59-4
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

10/594,519-309792-EIC SEARCH

(use of alkoxy- or hydroxypolyoxyalkylene-grafted acrylic polymers for improving optical brightener activity in paper coatings, textiles, detergents, and paints)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L83 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:181793 HCAPLUS Full-text

DOCUMENT NUMBER: 140:218990

TITLE: Wellbore cementing compositions from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for composites with elasticity or high compressive strength and low permeability

INVENTOR(S): Funkhouser, Gary P.; Eoff, Larry S.; Norman, Lewis R.

PATENT ASSIGNEE(S): Halliburton Energy Services, Inc., USA

SOURCE: Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1394135	A2	20040303	EP 2003-255254	2003 0822
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 20040040714	A1	20040304	US 2002-231971	2002 0830
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CA 2436454	A1	20040229	CA 2003-2436454	2003 0804
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US 20050038164	A1	20050217	US 2004-903772	2004 0730
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US 7238229	B2	20070703	US 2002-231971	A 2002 0830
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PRIORITY APPLN. INFO.:

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ED Entered STN: 05 Mar 2004

AB Wellbores are cemented using cement compns. having elasticity or high compressive strength and low permeability, basically comprised of particulate acid degradable glass, water, at least one water soluble polyalkenoic acid, or at least one water soluble polymerizable alkenoic acid monomer and a water soluble free-radical initiator. Some well cementing applications a cement composition is required that upon setting has a higher compressive strength and lower permeability than conventional hydraulic cement compns. The cement composition contains sufficient water to form a slurry and a water soluble polyalkenoic acid that reacts with the acid degradable glass to form a cement mass. Thus, a cement composition was prepared by combining a 30 % by weight water solution of a copolymer of acrylic acid and itaconic acid (weight ratio of 7:3, resp.)

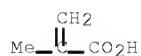
10/594,519-309792-EIC SEARCH

with particulate acid degradable glass. The composition was cured for 24 h at 73°F, after which the composition had a compressive strength of 2912 psi.

IT 25087-26-7, Methacrylic acid homopolymer
 25948-33-8, Acrylic acid-itaconic acid copolymer
 RL: CPS (Chemical process); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (aqueous slurries; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
 RN 25087-26-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer (CA INDEX NAME)

CM 1

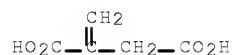
CRN 79-41-4
 CMF C4 H6 O2



RN 25948-33-8 HCAPLUS
 CN Butanedioic acid, 2-methylene-, polymer with 2-propenoic acid (CA INDEX NAME)

CM 1

CRN 97-65-4
 CMF C5 H6 O4

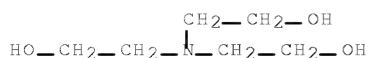


CM 2

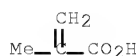
CRN 79-10-7
 CMF C3 H4 O2



IT 102-71-6, Triethanolamine, uses
 RL: CPS (Chemical process); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (reducing agent; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
 RN 102-71-6 HCAPLUS
 CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



IT 79-41-4, Methacrylic acid, uses 97-65-4,
Itaconic acid, uses
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); TEM (Technical or engineered material use); PROC
(Process); USES (Uses)
(water-soluble polymers; wellbore cementing
comps. from aqueous slurries containing acid degradable
glass and water soluble polyalkenoic acid for
elasticity or high compressive strength and low permeability)
RN 79-41-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl- (CA INDEX NAME)



RN 97-65-4 HCAPLUS
CN Butanedioic acid, 2-methylene- (CA INDEX NAME)



IC ICM C04B028-08
ICS C04B028-00; E21B033-13
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 51, 58
ST cementing wellbore water sol. polymer acid
degradable glass curing; compressive strength permeability polymer
glass cementing composite
IT Glass, uses
RL: CPS (Chemical process); MOA (Modifier or additive use); PEP
(Physical, engineering or chemical process); TEM (Technical or
engineered material use); PROC (Process); USES (Uses)
(acid degradable; wellbore cementing comps. from aqueous
slurries containing acid degradable glass and water
soluble polyalkenoic acid for elasticity or high
compressive strength and low permeability)
IT Slurries
(aqueous, polymer-acid degradable glass; wellbore cementing comps.
from aqueous slurries containing acid degradable glass and
water soluble polyalkenoic acid for elasticity
or high compressive strength and low permeability)
IT Composites
(polymer-glass particulate; wellbore cementing comps. from aqueous
slurries containing acid degradable glass and water
soluble polyalkenoic acid for elasticity or high
compressive strength and low permeability)
IT Polymerization catalysts
(radical, water-soluble; wellbore cementing
comps. from aqueous slurries containing acid degradable
glass and water soluble polyalkenoic acid for
elasticity or high compressive strength and low permeability)

10/594,519-309792-EIC SEARCH

- IT Fatty acids, uses
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (unsatd., water-soluble polymers; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT Polymers, uses
 RL: CPS (Chemical process); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (water-soluble, aqueous slurries; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT Compressive strength
 Wells
 (wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT Cement
 (wellbore, polymer-glass composite; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT 9003-01-4, Acrylic acid homopolymer 25087-26-7, Methacrylic acid homopolymer 25948-33-8, Acrylic acid-itaconic acid copolymer
 RL: CPS (Chemical process); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (aqueous slurries; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT 7631-86-9, Silica, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (flour, filler; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT 1332-37-2, Iron oxide, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (powdered, filler; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT 102-71-6, Triethanolamine, uses 7631-90-5, Sodium bisulfite 7772-98-7, Sodium thiosulfate
 RL: CPS (Chemical process); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 (reducing agent; wellbore cementing compns. from aqueous slurries containing acid degradable glass and water soluble polyalkenoic acid for elasticity or high compressive strength and low permeability)
- IT 75-91-2, tert-Butyl hydroperoxide 2638-94-0, 4,4'-Azobis(4-cyanovaleric acid) 2997-92-4, 2,2'-Azobis(2-methylpropionamidine) dihydrochloride 7722-84-1, Hydrogen peroxide, uses 7727-54-0, Ammonium persulfate 7775-27-1, Sodium persulfate 10288-28-5 27776-21-2,

10/594,519-309792-EIC SEARCH

2,2'-Azobis[2-(2-imidazolin-2-yl)propane] dihydrochloride
61551-69-7, 2,2'-Azobis[2-methyl-N-(2-hydroxyethyl)propionamide]
115947-73-4

RL: CPS (Chemical process); MOA (Modifier or additive use); PEP
(Physical, engineering or chemical process); TEM (Technical or
engineered material use); PROC (Process); USES (Uses)

(water-soluble free-radical initiator;
wellbore cementing comps. from aqueous slurries containing
acid degradable glass and water soluble
polyalkenoic acid for elasticity or high compressive strength
and low permeability)

IT 79-10-7, Acrylic acid, uses 79-41-4, Methacrylic acid,
uses 97-65-4, Itaconic acid, uses 110-16-7, Maleic
acid, uses 25249-16-5 25703-79-1 26022-14-0, Hydroxyethyl
acrylate polymer 32029-53-1, Hydroxypropyl acrylate polymer
89856-34-8, 2-Butene-1,2,3-tricarboxylic acid
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); TEM (Technical or engineered material use); PROC
(Process); USES (Uses)
(water-soluble polymers; wellbore cementing
comps. from aqueous slurries containing acid degradable
glass and water soluble polyalkenoic acid for
elasticity or high compressive strength and low permeability)

L83 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:194826 HCAPLUS Full-text

DOCUMENT NUMBER: 138:223173

TITLE: Acrylamide polymer-based strengthening agent
for papermaking

INVENTOR(S): Nakamura, Kenichi; Kiyota, Kenzo; Doi,
Hirotoshi

PATENT ASSIGNEE(S): Mitsui Chemicals Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2003073991	A	20030312	JP 2001-259250	2001 0829

PRIORITY APPLN. INFO.: <-- JP 2001-259250 2001
0829

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ED Entered STN: 12 Mar 2003

AB Title strengthening composition, for papermaking from a pulp slurry of elec.
conductivity ≥ 0.8 mS/cm, comprises (A) amphoteric polyacrylamides containing α, β -
unsatd. sulfonic acids (sulfonates) 0.01-5 and crosslinkable monomers 0.001-5 mol%, (B)
anionic polyacrylamides, and (C) water-sol. aluminum compds. Thus, a pulp slurry
obtained from waste corrugated paper was added with acrylamide-itaconic acid-
methacryloyloxyethyltrimethylbenzylammonium chloride-methylenebisacrylamide-sodium
methallylsulfonate copolymer 0.6, Accurac 304E 0.03, and aluminum sulfate 1.5% and
formed into a sheet showing JIS-P8126 compression factor 186 N·m²/g, Japan Tappi Number
29-78 surface compression factor 156 N·m²/g, fiber orientation factor 1,34, and
permeability 26 s.

IT 501004-29-1P

RL: IMF (Industrial manufacture); NUU (Other use, unclassified);
PREP (Preparation); USES (Uses)

(acrylamide polymer-based strengthening agent for papermaking)

RN 501004-29-1 HCAPLUS

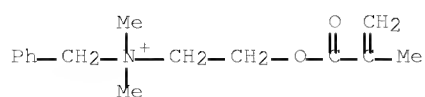
10/594,519-309792-EIC SEARCH

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with
N,N'-methylenebis[2-propenamide], methylenebutanedioic acid,
2-propenamide and sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA
INDEX NAME)

CM 1

CRN 46917-07-1

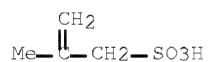
CMF C15 H22 N O2 . Cl



CM 2

CRN 1561-92-8

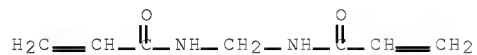
CMF C4 H8 O3 S . Na



CM 3

CRN 110-26-9

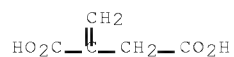
CMF C7 H10 N2 O2



CM 4

CRN 97-65-4

CMF C5 H6 O4



10/594,519-309792-EIC SEARCH

CM 5

CRN 79-06-1
CMF C3 H5 N O

IC ICM D21H017-37
ICS C08F220-56; C08F265-10; C08K003-30; C08L033-26; D21H017-43;
D21H017-66; D21H021-10; D21H021-18
CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
IT ~~501004-29-18~~
RL: IMF (Industrial manufacture); NUU (Other use, unclassified);
PREP (Preparation); USES (Uses)
(acrylamide polymer-based strengthening agent for papermaking)

L83 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:516819 HCAPLUS Full-text

DOCUMENT NUMBER: 137:186842

TITLE: Application of surfactants for treatment of
tire rubber blendsAUTHOR(S): Sakibaeva, S. A.; Eskaraeva, G. Z.;
Tasanbaeva, N. E.; Sataev, I. K.CORPORATE SOURCE: Yuzhno-Kaz. Gos. Univ. im. M. Auezova,
KazakhstanSOURCE: O'zbekiston Kimyo Jurnalı (2002),
(1), 72-75

CODEN: OKJZA6; ISSN: 0042-1707

PUBLISHER: Izdatel'stvo Fan

DOCUMENT TYPE: Journal

LANGUAGE: Russian

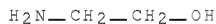
ED Entered STN: 12 Jul 2002

AB Comps. containing ~~water-soluble~~ surface-active hydrolyzed (and modified)
acrylonitrile-Me acrylate-itaconic acid copolymers K-4 K-9, and zeolites were used as
antisticking agents for SKI-3 isoprene rubber blends. Studied surfactants exhibited
good antisticking properties and cause no metal corrosion over long time periods.

IT ~~141-43-5D~~, Monoethanolamine, reaction products with
hydrolyzed acrylonitrile-Me acrylate-itaconic acid copolymer
~~27056-80-0D~~, Acrylonitrile-methyl acrylate-itaconic acid
copolymer, hydrolyzed, (reaction products with epoxy resin,
triglycidyl ether, or monoethanolamine)
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(surfactants comps. as antisticking agents for tire rubber
blends)

RN 141-43-5 HCAPLUS

CN Ethanol, 2-amino- (CA INDEX NAME)



RN 27056-80-0 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with methyl 2-propenoate
and 2-propenenitrile (CA INDEX NAME)

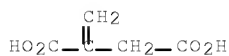
CM 1

CRN 107-13-1
CMF C3 H3 N



CM 2

CRN 97-65-4
CMF C5 H6 O4



CM 3

CRN 96-33-3
CMF C4 H6 O2



CC 39-13 (Synthetic Elastomers and Natural Rubber)
IT 141-43-5D, Monoethanolamine, reaction products with
hydrolyzed acrylonitrile-Me acrylate-itaconic acid copolymer
9004-32-4, Carboxymethylcellulose 9038-24-8, K 4 14807-96-6,
Talc, properties 25014-41-9D, Polyacrylonitrile, hydrolyzed
27056-80-0D, Acrylonitrile-methyl acrylate-itaconic acid
copolymer, hydrolyzed, (reaction products with epoxy resin,
triglycidyl ether, or monoethanolamine) 37221-33-3, Progress
52433-97-3, K 9
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(surfactants compns. as antisticking agents for tire rubber
blends)

L83 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:923659 HCAPLUS Full-text

DOCUMENT NUMBER: 136:55575

TITLE: Use of weakly anionic copolymers as
dispersing and/or grinding aid agent
of an aqueous suspension of mineral
materials

INVENTOR(S): Suau, Jean-Marc; Jacquemet, Christian;
Mongoin, Jacques

PATENT ASSIGNEE(S): Coatex S.A.S., Fr.

SOURCE: PCT Int. Appl., 110 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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10/594,519-309792-EIC SEARCH

WO 2001096007	A1	20011220	WO 2001-FR1804	2001 0612
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
FR 2810261	A1	20011221	FR 2000-7639	2000 0615
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CA 2410518	A1	20011220	CA 2001-2410518	2001 0612
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BR 2001011616	A	20030318	BR 2001-11616	2001 0612
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EP 1294476	A1	20030326	EP 2001-945395	2001 0612
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TW 552337	B	20030911	TW 2001-90114132	2001 0612
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KR 813785	B1	20080313	KR 2002-717094	2002 1214
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ZA 2003000153	A	20040210	ZA 2003-153	2003 0107
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US 20040019148	A1	20040129	US 2003-311219	2003

10/594,519-309792-EIC SEARCH

0702

US 6946510 B2 20050920
US 20050143511 A1 20050630 US 2005-46887

2005
0201

PRIORITY APPLN. INFO.:

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FR 2000-7639 A

2000
0615

<--
EP 2001-945395 A3

2001
0612

<--
WO 2001-FR1804 W

2001
0612

<--
US 2003-311219 A1

2003
0702

<--

ED Entered STN: 21 Dec 2001

AB The invention concerns the use of a weakly anionic and water soluble copolymer, as dispersing and/or grinding aid agent of pigments and/or mineral fillers in aqueous suspension providing a low zeta potential to aqueous suspensions of said fillers and/or pigments and providing electro-steric stabilization to said suspensions. The invention also concerns said aqueous suspensions of pigments and/or mineral fillers and their uses in the fields of paper industry, for making or coating paper, drilling mud for oil exploration and extraction. The invention also concerns the use of said dispersing and/or grinding aid agents in the fields of paints and plastic materials such as thermoplastic or thermosetting resins. Typical weakly anionic copolymers are manufactured from (a) ≥ 1 ethylenically unsatd. carboxylic acid selected from (meth)acrylic acid and mono-C1-4 alkyl esters of maleic or itaconic acid, (b) monoalkyl ethers of oxirane, methyloxirane, or ethyloxirane polymers having unsatd. groups on the ends opposite the ether groups, and, optionally, (c) other monomers.

IT 221881-27-2 221882-30-0
256311-28-1 381686-32-4 381686-34-6
381686-36-8 381686-40-4 381686-45-9
381686-46-0 381686-47-1 381686-48-2
381686-50-6 381686-51-7 382156-65-2
382156-79-8 382162-06-3 382162-09-6
382162-29-0 382162-32-5 382162-40-5
382162-56-3 382162-58-5 382162-62-1
382162-65-4

RL: NUU (Other use, unclassified); USES (Uses)
(use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials)

RN 221881-27-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl), graft, sodium salt (CA INDEX NAME)

CM 1

CRN 111740-39-7

CMF (C4 H6 O2 . (C2 H4 O)n C5 H8 O2)x

CCI PMS

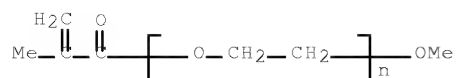
CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

CCI PMS

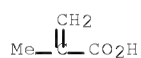
10/594,519-309792-EIC SEARCH



CM 3

CRN 79-41-4

CMF C4 H6 O2



RN 221882-30-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane, methyl ether, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 167763-01-1

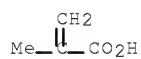
CMF (C4 H6 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

CMF C4 H6 O2



CM 4

CRN 75-21-8

CMF C2 H4 O



10/594,519-309792-EIC SEARCH

RN 256511-28-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

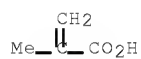
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

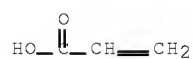
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 381686-32-4 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,

10/594,519-309792-EIC SEARCH

α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-31-3

CMF (C7 H13 N O4 S . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

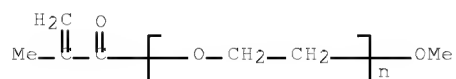
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

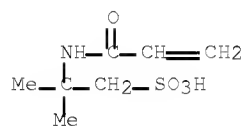
CCI PMS



CM 3

CRN 15214-89-8

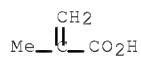
CMF C7 H13 N O4 S



CM 4

CRN 79-41-4

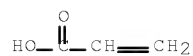
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



10/594,519-309792-EIC SEARCH

RN 381686-34-6 HCAPLUS

CN Butanedioic acid, methylene-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), 2-methyl-2-propenoic acid and 2-propenoic acid, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-33-5

CMF (C5 H6 O4 . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x

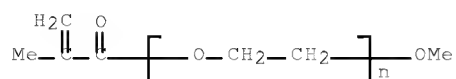
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

CCI PMS



CM 3

CRN 97-65-4

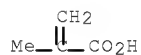
CMF C5 H6 O4



CM 4

CRN 79-41-4

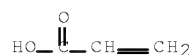
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



10/594,519-309792-EIC SEARCH

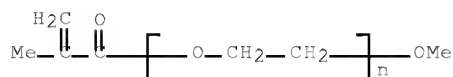
RN 381686-36-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (CA INDEX NAME)

CM 1

CRN 381686-35-7
 CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x
 CCI PMS

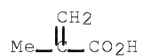
CM 2

CRN 26915-72-0
 CMF (C2 H4 O)n C5 H8 O2
 CCI PMS



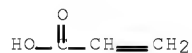
CM 3

CRN 79-41-4
 CMF C4 H6 O2



CM 4

CRN 79-10-7
 CMF C3 H4 O2



RN 381686-40-4 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with 1,2-ethanediyl
 bis(2-methyl-2-propenoate),
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-39-1
 CMF (C10 H14 O4 . C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x
 CCI PMS

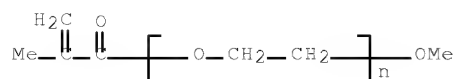
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CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

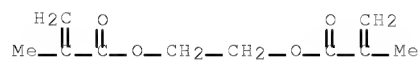
CCI PMS



CM 3

CRN 97-90-5

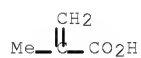
CMF C10 H14 O4



CM 4

CRN 79-41-4

CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 381686-45-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propen-1-yl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, potassium salt (CA INDEX NAME)

CM 1

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

CCI PMS

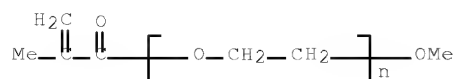
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CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

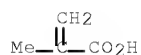
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CM 3

CRN 79-41-4

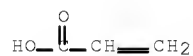
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



RN 381686-46-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x

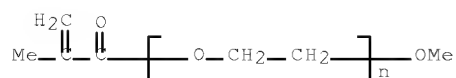
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

CCI PMS

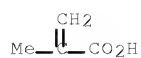


10/594,519-309792-EIC SEARCH

CM 3

CRN 79-41-4

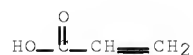
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



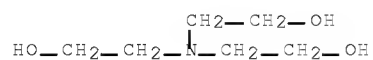
RN 381686-47-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, compd. with
 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x

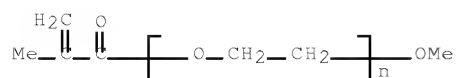
CCI PMS

CM 3

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

CCI PMS

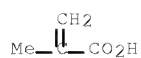


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CM 4

CRN 79-41-4

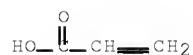
CMF C4 H6 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 381686-48-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, lithium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x

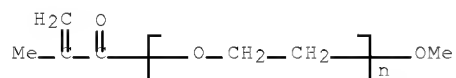
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

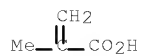
CCI PMS



CM 3

CRN 79-41-4

CMF C4 H6 O2

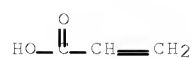


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-10-7

CMF C3 H4 O2



RN 381686-50-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, calcium sodium salt (9CI)
 (CA INDEX NAME)

CM 1

CRN 381686-35-7

CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)_n C5 H8 O2)_x

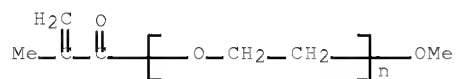
CCI PMS

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

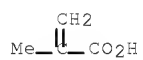
CCI PMS



CM 3

CRN 79-41-4

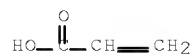
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



10/594,519-309792-EIC SEARCH

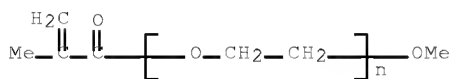
RN 381686-51-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, graft, magnesium sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 381686-35-7
 CMF (C4 H6 O2 . C3 H4 O2 . (C2 H4 O)n C5 H8 O2)x
 CCI PMS

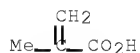
CM 2

CRN 26915-72-0
 CMF (C2 H4 O)n C5 H8 O2
 CCI PMS



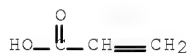
CM 3

CRN 79-41-4
 CMF C4 H6 O2



CM 4

CRN 79-10-7
 CMF C3 H4 O2



RN 382156-65-2 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl
 2-methyl-2-propenoate phosphate and
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 382156-64-1
 CMF (C6 H10 O3 . C4 H6 O2 . (C2 H4 O)n C5 H8 O2 . x H3 O4 P)x
 CCI PMS

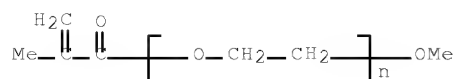
10/594,519-309792-EIC SEARCH

CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

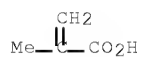
CCI PMS



CM 3

CRN 79-41-4

CMF C4 H6 O2



CM 4

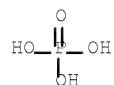
CRN 52628-03-2

CMF C6 H10 O3 . x H3 O4 P

CM 5

CRN 7664-38-2

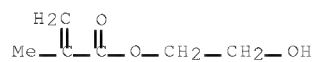
CMF H3 O4 P



CM 6

CRN 868-77-9

CMF C6 H10 O3



RN 382156-79-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl
2-methyl-2-propenoate phosphate and oxirane, methyl ether, graft,
sodium salt (9CI) (CA INDEX NAME)

10/594,519-309792-EIC SEARCH

CM 1

CRN 67-56-1
CMF C H4 O

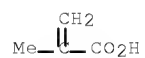


CM 2

CRN 382156-78-7
CMF (C6 H10 O3 . C4 H6 O2 . C2 H4 O . x H3 O4 P)x
CCI PMS

CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 75-21-8
CMF C2 H4 O

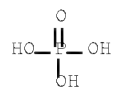


CM 5

CRN 52628-03-2
CMF C6 H10 O3 . x H3 O4 P

CM 6

CRN 7664-38-2
CMF H3 O4 P

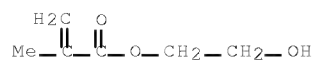


CM 7

CRN 868-77-9

10/594,519-309792-EIC SEARCH

CMF C6 H10 O3



RN 382162-06-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,
 oxirane and 2-propenoic acid, methyl ether, graft, sodium salt
 (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 256511-25-8

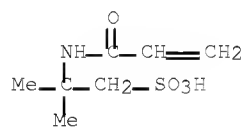
CMF (C7 H13 N O4 S . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 15214-89-8

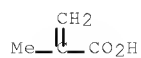
CMF C7 H13 N O4 S



CM 4

CRN 79-41-4

CMF C4 H6 O2

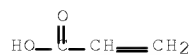


CM 5

CRN 79-10-7

10/594,519-309792-EIC SEARCH

CMF C3 H4 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 382162-09-6 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-methyl-2-propenoic acid, oxirane and 2-propenoic acid, methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 382162-08-5

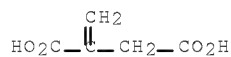
CMF (C5 H6 O4 . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 97-65-4

CMF C5 H6 O4

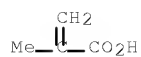


CM 4

CRN 79-41-4

CMF C4 H6 O2

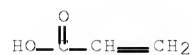
10/594,519-309792-EIC SEARCH



CM 5

CRN 79-10-7

CMF C3 H4 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 382162-29-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate), oxirane and 2-propenoic acid, methyl ether, graft, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 382162-28-9

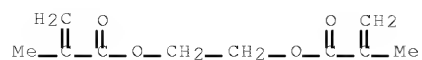
CMF (C10 H14 O4 . C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 97-90-5

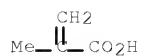
CMF C10 H14 O4



10/594,519-309792-EIC SEARCH

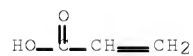
CM 4

CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-10-7
CMF C3 H4 O2



CM 6

CRN 75-21-8
CMF C2 H4 O



RN 382162-32-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, potassium salt (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O

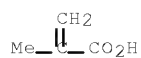


CM 2

CRN 159106-91-9
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

CM 3

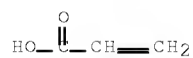
CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 382162-40-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

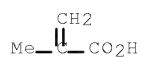
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

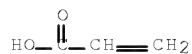
CMF C4 H6 O2



10/594,519-309792-EIC SEARCH

CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

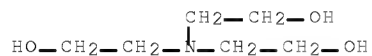
CRN 75-21-8
CMF C2 H4 O



RN 382162-56-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 102-71-6
CMF C6 H15 N O3



CM 2

CRN 381164-42-7
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x . x C H4 O

CM 3

CRN 67-56-1
CMF C H4 O



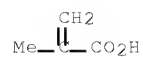
CM 4

CRN 159106-91-9
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

10/594,519-309792-EIC SEARCH

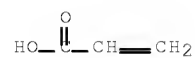
CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 75-21-8
CMF C2 H4 O



RN 382162-58-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, lithium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O



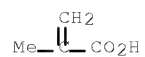
CM 2

CRN 159106-91-9
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

CM 3

CRN 79-41-4
CMF C4 H6 O2

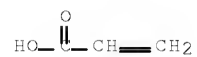
10/594,519-309792-EIC SEARCH



CM 4

CRN 79-10-7

CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 382162-62-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, calcium sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 159106-91-9

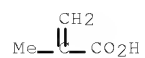
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 79-41-4

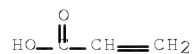
CMF C4 H6 O2



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CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 75-21-8
CMF C2 H4 O



RN 382162-65-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with oxirane and 2-propenoic acid, methyl ether, graft, magnesium sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O

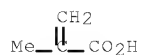


CM 2

CRN 159106-91-9
CMF (C4 H6 O2 . C3 H4 O2 . C2 H4 O)x
CCI PMS

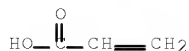
CM 3

CRN 79-41-4
CMF C4 H6 O2



CM 4

CRN 79-10-7
CMF C3 H4 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



IC ICM B01F017-52
ICS D21H019-58; D21H019-60; C09K007-02; D21H017-43; C08F220-00;
C08F222-00; C09C003-04; B01F017-00; C09D007-02

CC 46-4 (Surface Active Agents and Detergents)
Section cross-reference(s): 37, 42, 43, 51

ST dispersing agent mineral material water unsatd
polyoxyalkylene ether copolymer; drilling mud polymeric
dispersing agent; plastic compn polymeric
dispersing agent; paint waterborne polymeric
dispersing agent; paper coating waterborne polymeric
dispersing agent; itaconate monoester copolymer
dispersing agent mineral material water; maleate monoester
copolymer dispersing agent mineral material water;
methacrylic acid copolymer dispersing agent mineral
material water; acrylic acid copolymer dispersing agent
mineral material water

IT Chalk
RL: PEP (Physical, engineering or chemical process); PYP (Physical
process); PROC (Process)
(Etiquette Violette; use of weakly anionic copolymers as
dispersing and/or grinding aid agent of aqueous
suspensions of mineral materials)

IT Kaolin, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical
process); PROC (Process)
(SPS; use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials)

IT Polyoxyalkylenes, uses
RL: NUU (Other use, unclassified); USES (Uses)
(acrylic, graft, anionic; use of weakly anionic copolymers as
dispersing and/or grinding aid agent of aqueous
suspensions of mineral materials)

IT Plastics, miscellaneous
RL: MSC (Miscellaneous)
(thermoplastics; use of weakly anionic copolymers as
dispersing and/or grinding aid agent of aqueous
suspensions of mineral materials for thermoplastic
molding compns.)

IT Plastics, miscellaneous
RL: MSC (Miscellaneous)
(thermosetting; use of weakly anionic copolymers as
dispersing and/or grinding aid agent of aqueous
suspensions of mineral materials for thermosetting
molding compns.)

IT Polyesters, uses

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RL: POF (Polymer in formulation); USES (Uses)
 (unsatd.; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for thermosetting polymer molding compns.)

IT Dispersing agents
 Fillers
 Pigments, nonbiological
 (use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials)

IT Ionomers
 RL: NUU (Other use, unclassified); USES (Uses)
 (use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials)

IT Limestone, processes
 Marble
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
 (use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials)

IT Drilling fluids
 (use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for drilling muds)

IT Paper
 (use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for paper coatings)

IT Paints
 (water-thinned; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for paints)

IT Coating materials
 (water-thinned; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for paper coatings)

IT 471-34-1, Calcium carbonate, uses
 RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)
 (DP 800G, Socal P 3; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials)

IT 9003-07-0, Appryl 3120MN1
 RL: POF (Polymer in formulation); USES (Uses)
 (PPH 310MN1; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for thermoplastic polymer molding compns.)

IT 13463-67-7, Titanox RHD 2, processes
 RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
 (RHD 2; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials)

IT 9003-55-8D, carboxylated
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (coatings; use of weakly anionic copolymers as dispersing and/or grinding aid agent of aqueous suspensions of mineral materials for paper coatings)

IT 25767-47-9, Rhodopas DS 910
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

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(paints; use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials for paints)

IT 9004-74-4D, Polyethylene glycol monomethyl ether,
methacrylurethane derivs., graft polymers with ethylene glycol
methacrylate phosphate, Et acrylate, and acrylic acid, sodium
salts 221881-27-2 221882-30-0
256511-28-1 291536-34-0 381164-42-7
381686-32-4 381686-34-6 381686-35-7
381686-36-8 381686-38-0 381686-40-4
381686-42-6 381686-44-8 381686-45-9
381686-46-0 381686-47-1 381686-48-2
381686-49-3 381686-50-6 381686-51-7
382156-63-0 382156-65-2 382156-79-8
382162-06-3 382162-09-6 382162-29-0
382162-30-3 382162-31-4 382162-32-5
382162-40-5 382162-56-3 382162-58-5
382162-59-6 382162-62-1 382162-65-4

RL: NUU (Other use, unclassified); USES (Uses)

(use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials)

IT 1309-42-8, Magnesium hydroxide 16389-88-1, Dolomite, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical
process); PROC (Process)

(use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials)

IT 207973-61-3 314065-74-2

RL: MOA (Modifier or additive use); TEM (Technical or engineered
material use); USES (Uses)

(use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials for paper coatings)

IT 519154-57-5, DL 950

RL: POF (Polymer in formulation); TEM (Technical or engineered
material use); USES (Uses)

(use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials for thermosetting molding compns.)

IT 382600-66-0, Palapreg P 18

RL: POF (Polymer in formulation); USES (Uses)

(use of weakly anionic copolymers as dispersing
and/or grinding aid agent of aqueous suspensions of
mineral materials for thermosetting polymer molding compns.)

OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE
THIS RECORD (14 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L83 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:220337 HCAPLUS Full-text

DOCUMENT NUMBER: 134:253943

TITLE: Interlayer bonding improvers for paper with
low impact in the cost of manufacture and on
sludge treatment plant

INVENTOR(S): Matsuoka, Hideomi; Obokata, Takao; Kono, Koji;
Hirasawa, Takahito

PATENT ASSIGNEE(S): Nippon P.M.C. K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

10/594,519-309792-EIC SEARCH

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001081697	A	20010327	JP 2000-211007	2000 0712

PRIORITY APPLN. INFO.: <-- JP 1999-198354 A 1999
0713

ED Entered STN: 28 Mar 2001

AB The agents are obtained from the ~~water-soluble~~ polysaccharides containing alginic acid and acrylamide based polymers as reaction products or mixts. Thus, adding ULV 20 (Na alginate) 14.79 to a mixture of water 699.89, 50% aqueous solution of acrylamide 221.79, 76% aqueous solution of acryloyloxyethyltrimethylbenzylammonium chloride 29.15, 1% N,N-methylenebisacrylamide aqueous solution 6.33 and 5% Na methallylsulfonate aqueous solution 9.87, combining with 5% ammonium persulfate aqueous solution 3.75 parts and heating at 80° for 2 h gave a solution for improving paper interlayer bonding strength.

IT 331456-26-3F, Acrylamide-acryloyloxyethyltrimethylbenzylammonium chloride-itaconic acid-methylenebisacrylamide-sodium methallylsulfonate copolymer
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(interlayer bonding improvers for paper with low impact in cost of manufacture and on sludge treatment plant)

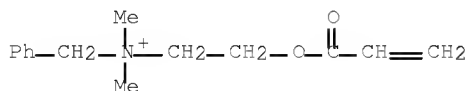
RN 331466-26-3 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with N,N'-methylenebis[2-propenamide], methylenebutanedioic acid, 2-propenamide and sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 46830-22-2

CMF C14 H20 N O2 . Cl

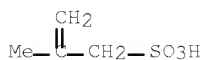


● Cl⁻

CM 2

CRN 1561-92-8

CMF C4 H8 O3 S . Na



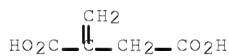
● Na

10/594,519-309792-EIC SEARCH

CM 3

CRN 110-26-9
CMF C7 H10 N2 O2

CM 4

CRN 97-65-4
CMF C5 H6 O4

CM 5

CRN 79-06-1
CMF C3 H5 N O

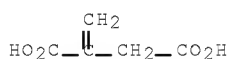
IC ICM D21H021-18
ICS C08F002-44; C08F251-00; D21H017-30; D21H017-37; D21H027-00
CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
IT 331466-25-2P, Acrylamide-acryloyloxyethyl dimethylbenzylammonium chloride-methylenebisacrylamide-sodium methallylsulfonate copolymer 331466-26-3P, Acrylamide-acryloyloxyethyl dimethylbenzylammonium chloride-itaconic acid-methylenebisacrylamide-sodium methallylsulfonate copolymer 331466-27-4P, Acrylamide-acryloyloxyethyl dimethylbenzylammonium chloride-sodium methallylsulfonate copolymer
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(interlayer bonding improvers for paper with low impact in cost of manufacture and on sludge treatment plant)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L83 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:207952 HCAPLUS Full-text
DOCUMENT NUMBER: 134:239306
TITLE: Wax compositions for aqueous applications
INVENTOR(S): Heinrichs, Franz-Leo
PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW

10/594,519-309792-EIC SEARCH

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1085054	A2	20010321	EP 2000-117405	2000 0811
<--				
EP 1085054	A3	20030502		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19942962	A1	20010628	DE 1999-19942962	1999 0909
<--				
DE 19942962	B4	20041223		
JP 2001106918	A	20010417	JP 2000-242135	2000 0810
<--				
CN 1288025	A	20010321	CN 2000-126941	2000 0908
<--				
US 6391189	B1	20020521	US 2000-658308	2000 0908
<--				
PRIORITY APPLN. INFO.:			DE 1999-19942962	A 1999 0909
<--				
ED	Entered STN: 22 Mar 2001			
AB	The title compns., which contain no H ₂ O-soluble emulsifiers or permanent soaps and give aqueous pastes forming H ₂ O-resistant, nontacky, elastic films on leather, contain ester, acid, and alc. components of specified composition 10-80% each. A mixture of trimethylolpropane complex ester 45.4, montan wax acids 27.3, and wax alc. (Unilline 425) 27.3% was mixed (22 parts) with paraffin wax 10, diethylenetriamine 1, N-methylglucamine 2, and H ₂ O 165 parts to give a suitable composition			
IT	97-65-4D, Itaconic acid, complex esters 111-42-2D, Diethanolamine, complex esters RL: TEM (Technical or engineered material use); USES (Uses) (wax compns. for aqueous applications)			
RN	97-65-4 HCAPLUS			
CN	Butanedioic acid, 2-methylene- (CA INDEX NAME)			



RN 111-42-2 HCAPLUS
 CN Ethanol, 2,2'-iminobis- (CA INDEX NAME)



10/594,519-309792-EIC SEARCH

IC ICM C08L091-06
 ICS C08L091-08
 CC 45-3 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 IT 50-70-4D, Sorbitol, complex esters 77-92-9D, Citric acid,
 complex esters 77-99-6D, Trimethylolpropane, complex esters
 87-69-4D, Tartaric acid, complex esters, uses 88-99-3D, Phthalic
 acid, complex esters 97-98-4D, Itaconic acid, complex
 esters 100-21-0D, Terephthalic acid, complex esters 110-16-7D,
 Maleic acid, complex esters 111-20-6D, Sebacic acid, complex
 esters 111-42-2D, Diethanolamine, complex esters
 115-77-5D, Pentaerythritol, complex esters 124-04-9D, Adipic
 acid, complex esters 693-23-2D, Dodecanedioic acid, complex
 esters 6284-40-8, N-Methylglucamine 6915-15-7D, Malic acid,
 complex esters 59113-36-9D, Diglycerol, complex esters
 118058-39-2, Uniline 425
 RL: TEM (Technical or engineered material use); USES (Uses)
 (wax compns. for aqueous applications)
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L83 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:101050 HCAPLUS Full-text
 DOCUMENT NUMBER: 134:164625
 TITLE: Recording method comprising printing recording
 medium with two liquid components
 INVENTOR(S): Kubota, Kazuhide; Oyanagi, Takashi;
 Miyabayashi, Toshiyuki
 PATENT ASSIGNEE(S): Seiko Epson Corp., Japan
 SOURCE: PCT Int. Appl., 137 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: ~~Patent~~
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001008895	A1	20010208	WO 2000-JP5150	2000 0731
<--				
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1125760	A1	20010822	EP 2000-949945	2000 0731
<--				
EP 1125760	B1	20060517		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 3622910	B2	20050223	JP 2001-513596	2000 0731
<--				
AT 326354	T	20060615	AT 2000-949945	2000 0731
<--				
US 20030069329	A1	20030410	US 2002-56231	2002 0125
<--				
US 7040747	B2	20060509		
PRIORITY APPLN. INFO.:		JP 1999-217296		A

10/594,519-309792-EIC SEARCH

1999

0730

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JP 2000-7135 A

2000

0114

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JP 2000-211821 A

2000

0712

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JP 2000-222966 A

2000

0724

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JP 2000-224002 A

2000

0725

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JP 2000-224141 A

2000

0725

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WO 2000-JP5150 W

2000

0731

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JP 2001-20737 A

2001

0129

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US 2001-806273 A2

2001

0328

<--

ED Entered STN: 09 Feb 2001

AB Title recording method for providing a good image with excellent adhesion to a recording medium and friction-resistance comprises printing by using an ink composition comprising a colorant, resin emulsion particles, a water-soluble organic solvent and water, and a reacting liquid comprising a reactant producing a coagulation upon contacting with the above ink composition to adhere to a recording medium, wherein the method comprises the steps of making the reacting liquid to adhere to the recording medium, then attaching the ink composition to the medium to print an image, and washing the recording medium printed with a polar solvent. Thus an ink composition comprising (1) a reacting liquid containing Mg(NO₃)₂·6H₂O, triethylene glycol Bu monoether, glycerin, and ion exchanged water, (2) a black ink composition containing carbon black MA 7, styrene-acrylic acid copolymer, styrene-2-ethylhexyl acrylate-methacrylic acid copolymer-sodium dodecylbenzenesulfonate emulsion, glycerin, and ion exchanged water, and (3) a color ink set containing cyan, magenta, and yellow inks was prepared for printing test, showing good image quality and good adhesion to medium after washing and heating.

IT 324575-78-2P 324575-82-8P
 324575-89-5P, Butyl acrylate-2-hydroxyethyl
 acrylate-1,6-hexanediol dimethacrylate-methacrylic acid-styrene
 copolymer ammonium salt 324575-91-9P,
 Acrylamide-lauryl methacrylate-methacrylic acid-styrene copolymer
 ammonium salt 324575-93-1P, Acrylamide-butyl
 acrylate-ethylene glycol dimethacrylate-methacrylic acid-styrene
 copolymer ammonium salt 324575-95-3P
 324575-97-5P, Acrylamide-butyl acrylate-diethylene glycol
 dimethacrylate-methacrylic acid-styrene copolymer ammonium salt
 324575-98-6P, Acrylamide-butyl acrylate-glycidyl
 methacrylate-methacrylic acid-styrene copolymer ammonium salt
 324576-00-3P, Butyl acrylate-methacrylic
 acid-styrene-trifluoroethyl methacrylate copolymer ammonium salt
 324576-03-6P, Acrylamide-butyl acrylate-ethylene glycol
 dimethacrylate-heptadecafluorodecyl methacrylate-methacrylic

10/594,519-309792-EIC SEARCH

acid-styrene copolymer ammonium salt 324576-08-1P,
 Acrylamide-butyl acrylate-methacrylic
 acid-styrene-2,2,3,3-tetrafluoropropyl methacrylate copolymer
 ammonium salt 324576-10-5P, Acrylamide-butyl
 acrylate-glycidyl methacrylate-methacrylic
 acid-perfluorooctylethyl methacrylate-styrene copolymer ammonium
 salt 324576-13-8P, Acrylamide-ethylene glycol
 dimethacrylate-methacrylic acid-methyl
 methacrylate-styrene-trifluoroethyl methacrylate copolymer
 ammonium salt 324576-16-1P, Butyl
 acrylate-methacryloyldiacetylmethane-methacrylic acid-styrene
 copolymer ammonium salt 324576-18-3P,
 2-Acetoacetoxyethyl methacrylate-acrylamide-lauryl
 methacrylate-methacrylic acid-styrene copolymer ammonium salt
 324576-21-8P, 2-Acetoacetoxyethyl
 methacrylate-acrylamide-butyl acrylate-ethylene glycol
 dimethacrylate-methacrylic acid-styrene copolymer ammonium salt
 324576-27-4P, 2-Acetoacetoxyethyl
 methacrylate-acrylamide-butyl acrylate-methacrylic acid-styrene
 copolymer ammonium salt 324576-29-6P, Acrylamide-butyl
 acrylate-diethyl methacryloylmalonate-glycidyl
 methacrylate-methacrylic acid-styrene copolymer ammonium salt
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PRP (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)

(emulsion, ink containing; preparation and properties of
 printing ink composition with two liquid components)

RN 324575-78-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with
 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl
 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene,
 oxiranymethyl 2-methyl-2-propenoate,
 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate and
 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-77-1

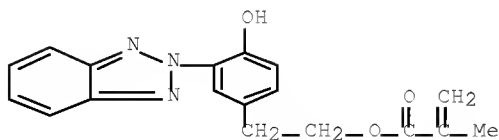
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C8 H8 . C7 H12 O2 . C7 H10 O3
 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 96478-09-0

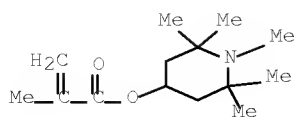
CMF C18 H17 N3 O3



CM 3

CRN 68548-08-3

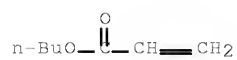
CMF C14 H25 N O2



CM 4

CRN 141-32-2

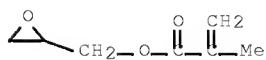
CMF C7 H12 O2



CM 5

CRN 106-91-2

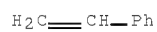
CMF C7 H10 O3



CM 6

CRN 100-42-5

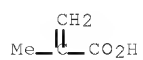
CMF C8 H8



CM 7

CRN 79-41-4

CMF C4 H6 O2



CM 8

CRN 79-06-1

CMF C3 H5 N O



RN 324575-82-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl
 2-methyl-2-propenoate, butyl 2-propenoate, 1,2-ethanediyl
 bis(2-methyl-2-propenoate), ethenylbenzene, oxiranylmethyl
 2-methyl-2-propenoate, 1,2,2,6,6-pentamethyl-4-piperidinyl
 2-methyl-2-propenoate, 2-propenamide and 2-sulfoethyl
 2-methyl-2-propenoate sodium salt, ammonium salt (9CI) (CA INDEX
 NAME)

CM 1

CRN 324575-81-7

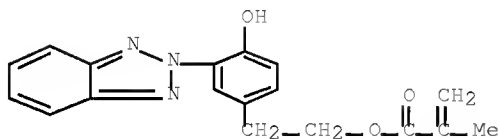
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C10 H14 O4 . C8 H8 . C7 H12
 O2 . C7 H10 O3 . C6 H10 O5 S . C4 H6 O2 . C3 H5 N O . Na)x

CCI PMS

CM 2

CRN 96478-09-0

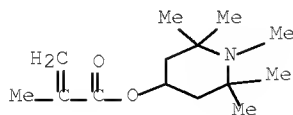
CMF C18 H17 N3 O3



CM 3

CRN 68548-08-3

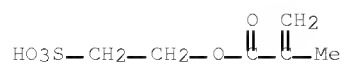
CMF C14 H25 N O2



CM 4

CRN 1804-87-1

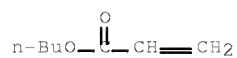
CMF C6 H10 O5 S . Na



CM 5

CRN 141-32-2

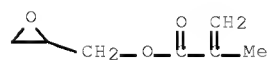
CMF C7 H12 O2



CM 6

CRN 106-91-2

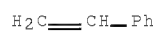
CMF C7 H10 O3



CM 7

CRN 100-42-5

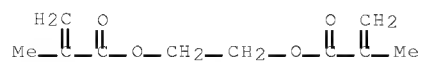
CMF C8 H8



CM 8

CRN 97-90-5

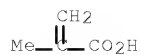
CMF C10 H14 O4



CM 9

CRN 79-41-4

CMF C4 H6 O2



CM 10

CRN 79-06-1

CMF C3 H5 N O



RN 324575-89-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 1,6-hexanediyl bis(2-methyl-2-propenoate) and 2-hydroxyethyl 2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-88-4

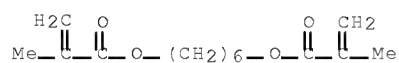
CMF (C14 H22 O4 . C8 H8 . C7 H12 O2 . C5 H8 O3 . C4 H6 O2)x

CCI PMS

CM 2

CRN 6606-59-3

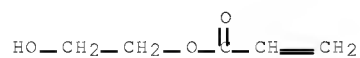
CMF C14 H22 O4



CM 3

CRN 818-61-1

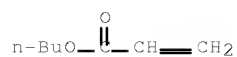
CMF C5 H8 O3



CM 4

CRN 141-32-2

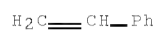
CMF C7 H12 O2



CM 5

CRN 100-42-5

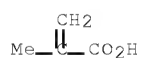
CMF C8 H8



CM 6

CRN 79-41-4

CMF C4 H6 O2



RN 324575-91-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with dodecyl
2-methyl-2-propenoate, ethenylbenzene and 2-propenamide, ammonium
salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-90-8

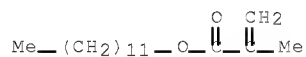
CMF (C16 H30 O2 . C8 H8 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 142-90-5

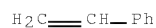
CMF C16 H30 O2



CM 3

CRN 100-42-5

CMF C8 H8

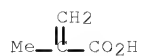


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-41-4

CMF C4 H6 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



RN 324575-93-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
1,1'-(1,2-ethanediyl) bis(2-methyl-2-propenoate), ethenylbenzene
and 2-methyl-2-propenoic acid, ammonium salt (CA INDEX NAME)

CM 1

CRN 324575-92-0

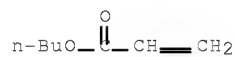
CMF (C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 141-32-2

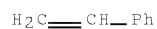
CMF C7 H12 O2



CM 3

CRN 100-42-5

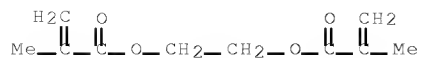
CMF C8 H8



CM 4

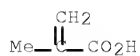
10/594,519-309792-EIC SEARCH

CRN 97-90-5
CMF C10 H14 O4



CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 79-06-1
CMF C3 H5 N O



RN 324575-95-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, ammonium salt (9CI) (CA INDEX NAME)

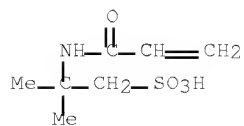
CM 1

CRN 324575-94-2

CMF (C10 H14 O4 . C8 H8 . C7 H13 N O4 S . C7 H12 O2 . C4 H6 O2)x
CCI PMS

CM 2

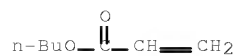
CRN 15214-89-8
CMF C7 H13 N O4 S



CM 3

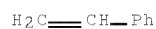
10/594,519-309792-EIC SEARCH

CRN 141-32-2
CMF C7 H12 O2



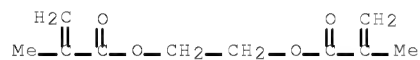
CM 4

CRN 100-42-5
CMF C8 H8



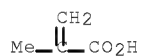
CM 5

CRN 97-90-5
CMF C10 H14 O4



CM 6

CRN 79-41-4
CMF C4 H6 O2



RN 324575-97-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, oxydi-2,1-ethanediyl bis(2-methyl-2-propenoate) and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

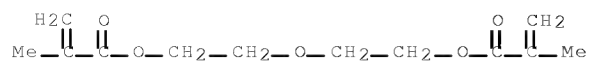
CM 1

CRN 324575-96-4
CMF (C12 H18 O5 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

CM 2

CRN 2358-84-1
CMF C12 H18 O5

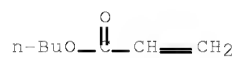
10/594,519-309792-EIC SEARCH



CM 3

CRN 141-32-2

CMF C7 H12 O2



CM 4

CRN 100-42-5

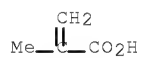
CMF C8 H8



CM 5

CRN 79-41-4

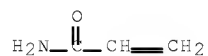
CMF C4 H6 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



RN 324575-98-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

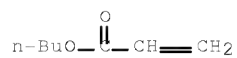
CM 1

10/594,519-309792-EIC SEARCH

CRN 75266-11-4
 CMF (C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x
 CCI PMS

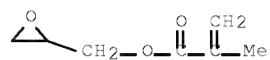
CM 2

CRN 141-32-2
 CMF C7 H12 O2



CM 3

CRN 106-91-2
 CMF C7 H10 O3



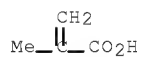
CM 4

CRN 100-42-5
 CMF C8 H8



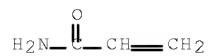
CM 5

CRN 79-41-4
 CMF C4 H6 O2



CM 6

CRN 79-06-1
 CMF C3 H5 N O



10/594,519-309792-EIC SEARCH

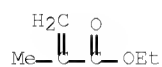
RN 324576-00-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene and trifluoroethyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-99-7
 CMF (C8 H8 . C7 H12 O2 . C6 H7 F3 O2 . C4 H6 O2)x
 CCI PMS

CM 2

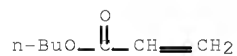
CRN 38785-10-3
 CMF C6 H7 F3 O2
 CCI IDS



3 (D1-F)

CM 3

CRN 141-32-2
 CMF C7 H12 O2



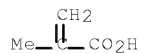
CM 4

CRN 100-42-5
 CMF C8 H8



CM 5

CRN 79-41-4
 CMF C4 H6 O2



10/594,519-309792-EIC SEARCH

RN 324576-03-6 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene,
 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl
 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA
 INDEX NAME)

CM 1

CRN 324576-02-5

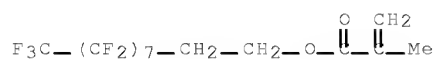
CMF (C14 H9 F17 O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 .
 C3 H5 N O)x

CCI PMS

CM 2

CRN 1996-88-9

CMF C14 H9 F17 O2



CM 3

CRN 141-32-2

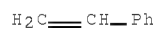
CMF C7 H12 O2



CM 4

CRN 100-42-5

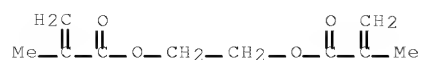
CMF C8 H8



CM 5

CRN 97-90-5

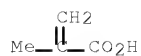
CMF C10 H14 O4



10/594,519-309792-EIC SEARCH

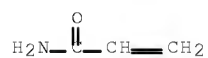
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



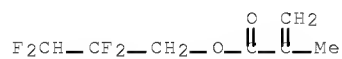
RN 324576-08-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 2-propenamide and 2,2,3,3-tetrafluoropropyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-07-0
CMF (C8 H8 . C7 H12 O2 . C7 H8 F4 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

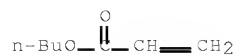
CM 2

CRN 45102-52-1
CMF C7 H8 F4 O2



CM 3

CRN 141-32-2
CMF C7 H12 O2



CM 4

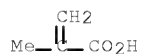
10/594,519-309792-EIC SEARCH

CRN 100-42-5
CMF C8 H8



CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 79-06-1
CMF C3 H5 N O



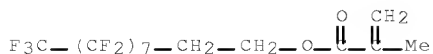
RN 324576-10-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-09-2
CMF (C14 H9 F17 O2 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

CM 2

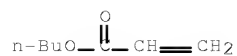
CRN 1996-88-9
CMF C14 H9 F17 O2



CM 3

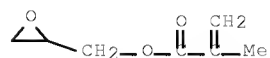
10/594,519-309792-EIC SEARCH

CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 106-91-2
CMF C7 H10 O3



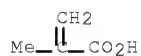
CM 5

CRN 100-42-5
CMF C8 H8



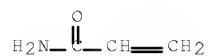
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



RN 324576-13-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,2-ethanediyl
bis(2-methyl-2-propenoate), ethenylbenzene, methyl
2-methyl-2-propenoate, 2-propenamide and trifluoroethyl

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2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-12-7

CMF (C10 H14 O4 . C8 H8 . C6 H7 F3 O2 . C5 H8 O2 . C4 H6 O2 . C3 H5 N O)x

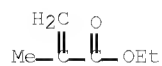
CCI PMS

CM 2

CRN 38785-10-3

CMF C6 H7 F3 O2

CCI IDS

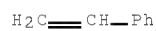


3 (D1-F)

CM 3

CRN 100-42-5

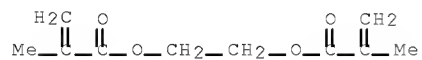
CMF C8 H8



CM 4

CRN 97-90-5

CMF C10 H14 O4



CM 5

CRN 80-62-6

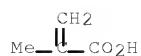
CMF C5 H8 O2



CM 6

10/594,519-309792-EIC SEARCH

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



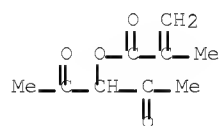
RN 324576-16-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1-acetyl-2-oxopropyl
2-methyl-2-propenoate, butyl 2-propenoate and ethenylbenzene,
ammonium salt (9CI) (CA INDEX NAME)

CM 1

```
CRN 324576-15-0
CMF (C9 H12 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2)x
CCI PMS
```

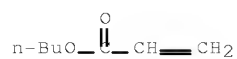
CM 2

CRN 129955-71-1
CMF C9 H12 O4



CM 3

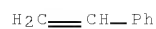
CRN 141-32-2
CMF C7 H12 O2



CM 4

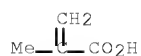
10/594,519-309792-EIC SEARCH

CRN 100-42-5
CMF C8 H8



CM 5

CRN 79-41-4
CMF C4 H6 O2



RN 324576-18-3 HCAPLUS

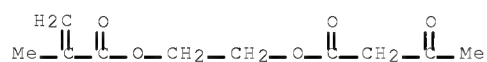
CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-methyl-2-propenoic acid and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-17-2
CMF (C16 H30 O2 . C10 H14 O5 . C8 H8 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

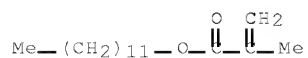
CM 2

CRN 21282-97-3
CMF C10 H14 O5



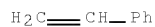
CM 3

CRN 142-90-5
CMF C16 H30 O2



CM 4

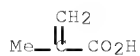
CRN 100-42-5
CMF C8 H8



CM 5

CRN 79-41-4

CMF C4 H6 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



RN 324576-21-8 HCAPLUS

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene, 2-methyl-2-propenoic acid and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-20-7

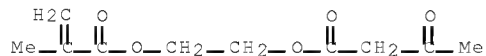
CMF (C10 H14 O5 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 21282-97-3

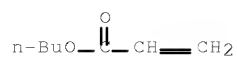
CMF C10 H14 O5



CM 3

CRN 141-32-2

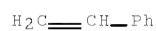
CMF C7 H12 O2



CM 4

CRN 100-42-5

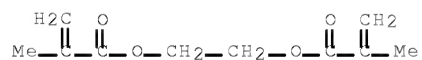
CMF C8 H8



CM 5

CRN 97-90-5

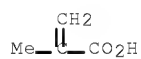
CMF C10 H14 O4



CM 6

CRN 79-41-4

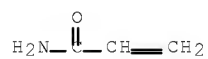
CMF C4 H6 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 324576-27-4 HCAPLUS

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2-methyl-2-propenoic acid and 2-propenamide, ammonium salt (9CI)
(CA INDEX NAME)

CM 1

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CRN 324576-26-3

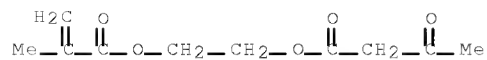
CMF (C10 H14 O5 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O) x

CCI PMS

CM 2

CRN 21282-97-3

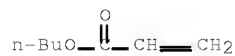
CMF C10 H14 O5



CM 3

CRN 141-32-2

CMF C7 H12 O2



CM 4

CRN 100-42-5

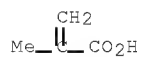
CMF C8 H8



CM 5

CRN 79-41-4

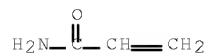
CMF C4 H6 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



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RN 324576-29-6 HCAPLUS

CN Propanedioic acid, (2-methyl-1-oxo-2-propenyl)-, diethyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2-methyl-2-propenoic acid, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-28-5

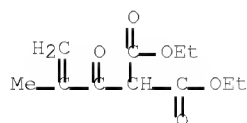
CMF (C11 H16 O5 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 4180-09-0

CMF C11 H16 O5



CM 3

CRN 141-32-2

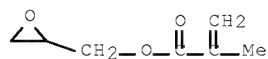
CMF C7 H12 O2



CM 4

CRN 106-91-2

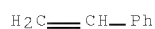
CMF C7 H10 O3



CM 5

CRN 100-42-5

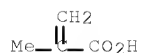
CMF C8 H8



CM 6

CRN 79-41-4

CMF C4 H6 O2



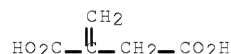
CM 7

CRN 79-06-1

CMF C3 H5 N O



IT 97-65-4D, Itaconic acid, esters, polymers with styrene
 RL: TEM (Technical or engineered material use); USES (Uses)
 (ink containing; preparation and properties of printing ink composition with
 two liquid components)
 RN 97-65-4 HCAPLUS
 CN Butanedioic acid, 2-methylene- (CA INDEX NAME)



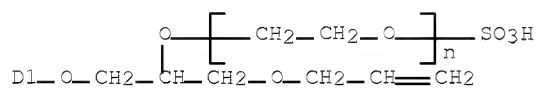
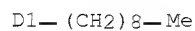
IT 324575-84-0P 324575-85-1P
 324737-84-0P, Butyl methacrylate-ethylene
 oxide-methacrylic acid-phenoxyethyl methacrylate graft copolymer
 ammonium sulfate 324737-86-2P, Benzyl
 methacrylate-butyl methacrylate-dicyclopentanyl
 dimethacrylate-ethylene oxide-methacrylic acid graft copolymer
 ammonium sulfate
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 TEM (Technical or engineered material use); PREP (Preparation);
 USES (Uses)
 (pigment dispersion; preparation and properties of
 printing ink composition with two liquid components)
 RN 324575-84-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl
 2-methyl-2-propenoate, 2-phenoxyethyl 2-methyl-2-propenoate and
 α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-
 propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft
 (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

CMF (C2 H4 O)n C21 H34 O6 S . H3 N

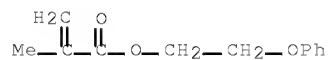
CCI IDS, PMS



CM 2

CRN 10595-06-9

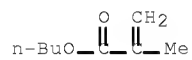
CMF C12 H14 O3



CM 3

CRN 97-88-1

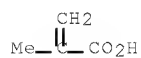
CMF C8 H14 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 324575-85-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl
 2-methyl-2-propenoate, octahydro-4,7-methano-1H-inden-5-yl
 2-methyl-2-propenoate, phenylmethyl 2-methyl-2-propenoate and
 α -sulfo- ω -[1-[(nonylphenoxy)methyl]-2-(2-
 propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft

10/594,519-309792-EIC SEARCH

(9CI) (CA INDEX NAME)

CM 1

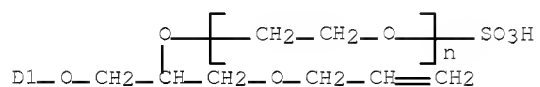
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS



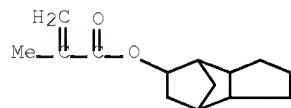
D1-(CH₂)₈-Me



CM 2

CRN 34759-34-7

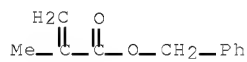
CMF C14 H20 O2



CM 3

CRN 2495-37-6

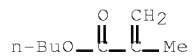
CMF C11 H12 O2



CM 4

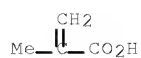
CRN 97-88-1

CMF C8 H14 O2



CM 5

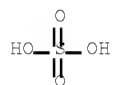
CRN 79-41-4
 CMF C4 H6 O2



RN 324737-84-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl
 2-methyl-2-propenoate, oxirane and 2-phenoxyethyl
 2-methyl-2-propenoate, hydrogen sulfate, graft, ammonium salt
 (9CI) (CA INDEX NAME)

CM 1

CRN 7664-93-9
 CMF H2 O4 S

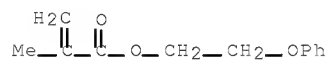


CM 2

CRN 324737-83-9
 CMF (C12 H14 O3 . C8 H14 O2 . C4 H6 O2 . C2 H4 O)x
 CCI PMS

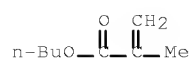
CM 3

CRN 10595-06-9
 CMF C12 H14 O3



CM 4

CRN 97-88-1
 CMF C8 H14 O2

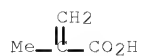


10/594,519-309792-EIC SEARCH

CM 5

CRN 79-41-4

CMF C4 H6 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



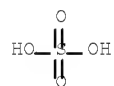
RN 324737-86-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl
2-methyl-2-propenoate, octahydro-4,7-methano-1H-indene-5,?-diyl
bis(2-methyl-2-propenoate), oxirane and phenylmethyl
2-methyl-2-propenoate, hydrogen sulfate, graft, ammonium salt
(9CI) (CA INDEX NAME)

CM 1

CRN 7664-93-9

CMF H2 O4 S



CM 2

CRN 326926-42-5

CMF (C18 H24 O4 . C11 H12 O2 . C8 H14 O2 . C4 H6 O2 . C2 H4 O)x

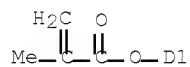
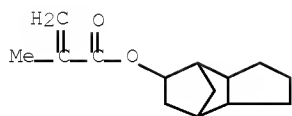
CCI PMS

CM 3

CRN 107293-48-1

CMF C18 H24 O4

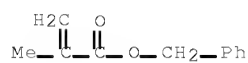
CCI IDS



CM 4

CRN 2495-37-6

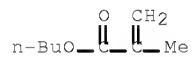
CMF C11 H12 O2



CM 5

CRN 97-88-1

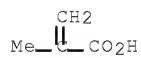
CMF C8 H14 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



CM 7

CRN 75-21-8

CMF C2 H4 O



IC ICM B41M005-00
ICS B41J003-04; C09D011-00

10/594,519-309792-EIC SEARCH

CC 42-12 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 73

IT Dispersing agents
 Dispersion (of materials)
 Dyes
 Emulsifying agents
 Emulsions
 Light stabilizers
 Pigments, nonbiological
 Surfactants
 UV stabilizers
 (ink containing; preparation and properties of printing ink composition with two liquid components)

IT 25085-34-1, Acrylic acid-styrene copolymer 35209-54-2, Acrylic acid-styrene copolymer ammonium salt
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (dispersing agent, ink containing; preparation and properties of printing ink composition with two liquid components)

IT 25155-30-0, Sodium dodecylbenzenesulfonate
 RL: NUU (Other use, unclassified); USES (Uses)
 (emulsifier, ink containing; preparation and properties of printing ink composition with two liquid components)

IT 151-21-3, Sodium laurylsulfate, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (emulsifier; preparation and properties of printing ink composition with two liquid components)

IT 26636-08-8P, 2-Ethylhexyl acrylate-methacrylic acid-styrene copolymer 232935-02-3P, Acrylamide-acrylic acid-ADK Stab LA 82-butyl acrylate-RUVA 93-styrene copolymer ammonium salt 324575-78-2P 324575-80-6P 324575-82-8P 324575-89-5P, Butyl acrylate-2-hydroxyethyl acrylate-1,6-hexanediol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324575-91-9P, Acrylamide-lauryl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324575-93-1P, Acrylamide-butyl acrylate-ethylene glycol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324575-95-3P 324575-97-5P, Acrylamide-butyl acrylate-diethylene glycol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324575-98-6P, Acrylamide-butyl acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-00-3P, Butyl acrylate-methacrylic acid-styrene-trifluoroethyl methacrylate copolymer ammonium salt 324576-03-6P, Acrylamide-butyl acrylate-ethylene glycol dimethacrylate-heptadecafluorodecyl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-06-9P, 2-Acryloylamino-2-methylpropanesulfonic acid-butyl acrylate-diethylene glycol dimethacrylate-2,2,3,4,4,4-hexafluorobutyl methacrylate-styrene copolymer ammonium salt 324576-08-1P, Acrylamide-butyl acrylate-methacrylic acid-styrene-2,2,3,3-tetrafluoropropyl methacrylate copolymer ammonium salt 324576-10-5P, Acrylamide-butyl acrylate-glycidyl methacrylate-methacrylic acid-perfluorooctylethyl methacrylate-styrene copolymer ammonium salt 324576-13-8P, Acrylamide-ethylene glycol dimethacrylate-methacrylic acid-methyl methacrylate-styrene-trifluoroethyl methacrylate copolymer ammonium salt 324576-16-1P, Butyl acrylate-methacryloyldiacetylmethane-methacrylic acid-styrene copolymer ammonium salt 324576-18-3P, 2-Acetoacetoxyethyl methacrylate-acrylamide-lauryl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-21-8P, 2-Acetoacetoxyethyl methacrylate-acrylamide-butyl acrylate-ethylene glycol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-24-1P 324576-27-4P, 2-Acetoacetoxyethyl

10/594,519-309792-EIC SEARCH

methacrylate-acrylamide-butyl acrylate-methacrylic acid-styrene
copolymer ammonium salt 324575-29-8P, Acrylamide-butyl
acrylate-diethyl methacryloylmalonate-glycidyl
methacrylate-methacrylic acid-styrene copolymer ammonium salt
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)

(emulsion, ink containing; preparation and properties of
printing ink composition with two liquid components)

IT 79-41-4D, Methacrylic acid, esters, polymers 97-85-4D,
Itaconic acid, esters, polymers with styrene 100-42-5D, Styrene,
polymers with (meth)acrylates 9002-88-4, Polyethylene
9003-07-0, Polypropylene 9003-20-7, Poly(vinyl acetate)
9003-53-6, Polystyrene 9010-86-0, Ethyl acrylate-ethylene
copolymer 24937-78-8, Ethylene-vinyl acetate copolymer
25300-64-5, Maleic acid-styrene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(ink containing; preparation and properties of printing ink composition with
two liquid components)

IT 324575-83-9P 324575-84-0P 324575-85-1P
324575-86-2P 324575-87-3P 324737-82-8P, Acrylonitrile-ethylene
oxide graft copolymer, ammonium sulfate 324737-84-0P,
Butyl methacrylate-ethylene oxide-methacrylic acid-phenoxyethyl
methacrylate graft copolymer ammonium sulfate
324737-86-2P, Benzyl methacrylate-butyl
methacrylate-dicyclopentanyl dimethacrylate-ethylene
oxide-methacrylic acid graft copolymer ammonium sulfate
324737-88-4P, 2-Acrylamido-2-methylpropanesulfonic
acid-acrylonitrile-benzyl methacrylate-butyl methacrylate-ethylene
oxide graft copolymer ammonium sulfate 324737-90-8P,
Acrylonitrile-dibutyl fumarate-ethylene oxide graft copolymer
ammonium sulfate
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
TEM (Technical or engineered material use); PREP (Preparation);
USES (Uses)

(pigment dispersion; preparation and properties of
printing ink composition with two liquid components)

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE
THIS RECORD (8 CITINGS)
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L83 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:107083 HCAPLUS Full-text

DOCUMENT NUMBER: 132:153520

TITLE: Paper sizing agent and paper coated with the
same

INVENTOR(S): Yokotani, Kenji; Torigoe, Noriaki

PATENT ASSIGNEE(S): Arakawa Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000045196	A	20000215	JP 1998-228696	1998 0728

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JP 4147630	B2	20080910	JP 1998-228696	1998
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PRIORITY APPLN. INFO.:

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ED Entered STN: 15 Feb 2000

AB The agent comprises (1) paper sizing agent, (2) the carboxyl-containing polyacrylamide and (3) water-sol . Al compound (Al sulfate). Thus, a sizing agent was prepared by emulsion polymerization styrene 45, Bu acrylate 10, methacrylic acid 45% in H2O containing K persulfate and neutralization with 28% NH3.

IT 58479-10-0P, Butyl acrylate-methacrylic acid-styrene copolymer ammonium salt 218687-26-0P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 TEM (Technical or engineered material use); PREP (Preparation);
 USES (Uses)

(paper sizing agent and paper coated with the same)

RN 58479-10-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and ethenylbenzene, ammonium salt (CA INDEX NAME)

CM 1

CRN 25036-16-2

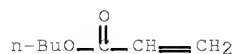
CMF (C8 H8 . C7 H12 O2 . C4 H6 O2)x

CCI PMS

CM 2

CRN 141-32-2

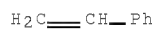
CMF C7 H12 O2



CM 3

CRN 100-42-5

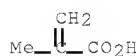
CMF C8 H8



CM 4

CRN 79-41-4

CMF C4 H6 O2



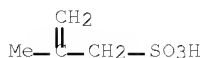
RN 219687-26-0 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with 2-propenamide and sodium 2-methyl-2-propene-1-sulfonate (1:1) (CA INDEX NAME)

CM 1

10/594,519-309792-EIC SEARCH

CRN 1561-92-8
 CMF C4 H8 O3 S . Na



● Na

CM 2

CRN 97-65-4
 CMF C5 H6 O4



CM 3

CRN 79-06-1
 CMF C3 H5 N O



IC ICM D21H019-20
 CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
 Section cross-reference(s): 42
 IT Polymerization
 (emulsion; paper sizing agent and paper coated with
 the same)
 IT 9003-06-9P, Acrylamide-acrylic acid copolymer 26022-09-3P,
 Maleic anhydride-styrene copolymer ammonium salt 26590-08-9P,
 Diisobutylene-maleic anhydride copolymer ammonium salt
 58479-10-0P, Butyl acrylate-methacrylic acid-styrene
 copolymer ammonium salt 149935-58-0P 219587-25-0P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 TEM (Technical or engineered material use); PREP (Preparation);
 USES (Uses)
 (paper sizing agent and paper coated with the same)

L83 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:105287 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:139004
 TITLE: Water-based polyacrylamide-type coatings and
 coated papers thereof
 INVENTOR(S): Yokotani, Kenji; Torikoshi, Noriaki
 PATENT ASSIGNEE(S): Arakawa Chemical Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent

10/594,519-309792-EIC SEARCH

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000045197	A	20000215	JP 1998-228697	1998 0728
JP 4147631	B2	20080910	JP 1998-228697	1998 0728

PRIORITY APPLN. INFO.: <--

ED Entered STN: 15 Feb 2000

AB The coatings comprise solns. containing surface sizing agents, polyacrylamides bearing CO₂H, starches, water-soluble Al compds., and chelating agents. Thus, 20 parts of a 3%-solid solution of 45:10:45 styrene-Bu acrylate-methacrylic acid copolymer ammonium salt and 40 parts of a 3%-solid solution of 94.9:5.1 acrylamide-acrylic acid copolymer Na salt were mixed with 3.6 parts of a 3% Al₂(SO₄)₃ solution and 1000 parts of a 10% solution of an oxidized starch (Oji Ace A) then diluted to 2.5% to give a coating. Raw papers for newspapers were coated with the coating, dried at 100°, and kept at 20° and 65% RH for a day to give test pieces having min. naps after printing, low solubility of the coating in water, and good sizing property.

IT 58479-10-00, Butyl acrylate-methacrylic acid-styrene copolymer ammonium salt

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PREP (Preparation); USES (Uses)
 (water-based polyacrylamide-type coatings for coated papers)

RN 58479-10-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and ethenylbenzene, ammonium salt (CA INDEX NAME)

CM 1

CRN 25036-16-2

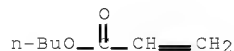
CMF (C8 H8 . C7 H12 O2 . C4 H6 O2)x

CCI PMS

CM 2

CRN 141-32-2

CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8

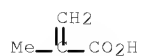


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-41-4

CMF C4 H6 O2



IT 257277-33-1E

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(water-based polyacrylamide-type coatings for coated papers)

RN 257277-33-1 HCAPLUS

CN Butanedioic acid, 2-methylene-, polymer with 2-propenamide and sodium 2-methyl-2-propene-1-sulfonate (1:1), sodium salt (CA INDEX NAME)

CM 1

CRN 219687-26-0

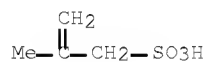
CMF (C5 H6 O4 . C4 H8 O3 S . C3 H5 N O . Na)x

CCI PMS

CM 2

CRN 1561-92-8

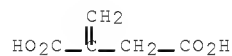
CMF C4 H8 O3 S . Na



CM 3

CRN 97-65-4

CMF C5 H6 O4



CM 4

CRN 79-06-1

CMF C3 H5 N O



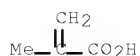
IC ICM D21H019-20
ICS D21H019-10; D21H019-12
CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
Section cross-reference(s): 42
IT 26022-10-6P ~~58479-10-0P~~, Butyl acrylate-methacrylic
acid-styrene copolymer ammonium salt 257282-32-9P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(water-based polyacrylamide-type coatings for coated papers)
IT 25987-30-8P, Acrylamide-acrylic acid copolymer sodium salt
149935-58-0P ~~257277-33-1P~~
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)
(water-based polyacrylamide-type coatings for coated papers)

L83 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:60032 HCAPLUS Full-text
DOCUMENT NUMBER: 132:109529
TITLE: Water-based recording liquids and ink-jet
recording process thereof
INVENTOR(S): Miyabayashi, Toshiyuki; Yatake, Masahiro
PATENT ASSIGNEE(S): Seiko Epson Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000026779	A	20000125	JP 1998-192131	1998 0707

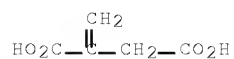
PRIORITY APPLN. INFO.: <-- JP 1998-192131 1998
0707

ED Entered STN: 26 Jan 2000
AB The liqs. contain pigments or ~~disperse~~ dyes, water, ~~water-soluble~~ organic solvents, and
optionally surfactants and/or glycol ethers, polymer fine particles, and alkaline
agents and have storage modulus in 0.01-10 Hz 1 + 10-1 Pz in dynamic viscoelastic
determination at strain 1.0 and ζ potential at pH 6.5-11.5 \leq -20 mV. The liquid show
excellent pigment ~~dispersion~~ stability and storage stability. Thus, an ink-jet ink
contained carbon black (MA 7) 6, styrene-acrylic acid copolymer 1, glycerin 20, NaOH
0.1%, and balance water.
IT 79-41-4D, Methacrylic acid, esters, polymers
97-65-4D, Itaconic acid, esters, polymer with styrene
102-71-6, Triethanolamine, uses 111-42-2,
Diethanolamine, uses 141-43-5, Monoethanolamine, uses
26007-37-4, Itaconic acid-styrene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(in water-based ink-jet inks with good pigment
~~dispersion~~ stability and storage stability)
RN 79-41-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl- (CA INDEX NAME)

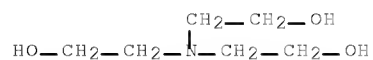


10/594,519-309792-EIC SEARCH

RN 97-65-4 HCAPLUS
 CN Butanedioic acid, 2-methylene- (CA INDEX NAME)



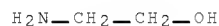
RN 102-71-6 HCAPLUS
 CN Ethanol, 2,2',2''-nitrilotris- (CA INDEX NAME)



RN 111-42-2 HCAPLUS
 CN Ethanol, 2,2'-iminobis- (CA INDEX NAME)



RN 141-43-5 HCAPLUS
 CN Ethanol, 2-amino- (CA INDEX NAME)

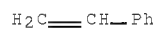


RN 26007-37-4 HCAPLUS
 CN Butanedioic acid, 2-methylene-, polymer with ethenylbenzene (CA INDEX NAME)

CM 1

CRN 100-42-5

CMF C8 H8

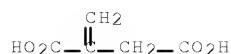


CM 2

CRN 97-65-4

CMF C5 H6 O4

10/594,519-309792-EIC SEARCH



IC ICM C09D011-02
ICS B41J002-01; B41M005-00

CC 42-12 (Coatings, Inks, and Related Products)

IT Surfactants
(amphoteric; in water-based ink-jet inks with good pigment dispersion stability and storage stability)

IT Surfactants
(anionic; in water-based ink-jet inks with good pigment dispersion stability and storage stability)

IT Polyamides, uses
Polyesters, uses
Polysiloxanes, uses
Polyurethanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(in water-based ink-jet inks with good pigment dispersion stability and storage stability)

IT Inks
(jet-printing, water-thinned; water-based ink-jet inks with good pigment dispersion stability and storage stability)

IT Surfactants
(nonionic; in water-based ink-jet inks with good pigment dispersion stability and storage stability)

IT 74-85-1D, Ethylene, polymer with (meth)acrylic acid ester
75-50-3, Trimethylamine, uses 79-10-7D, Acrylic acid, esters, polymers 79-41-4D, Methacrylic acid, esters, polymers 97-65-4D, Itaconic acid, esters, polymer with styrene
100-37-8, Diethyl ethanolamine 100-42-5D, Styrene, polymer with (meth)acrylic acid ester 102-71-6, Triethanolamine, uses 102-79-4, Butyl diethanolamine 108-01-0, Dimethyl ethanolamine 109-83-1, Monomethyl ethanolamine 110-16-7D, Maleic acid, esters, polymer with styrene 111-42-2, Diethanolamine, uses 112-34-5, Diethylene glycol monobutyl ether 112-59-4, Diethylene glycol monohexylether 121-44-8, Triethylamine, uses 122-20-3, Triisopropanolamine 126-86-3, Surfynol 104 141-43-3, Monoethanolamine, uses 143-22-6, Triethylene glycol monobutyl ether 585-88-6, Maltitol 1310-58-3, Potassium hydroxide, uses 1310-65-2, Lithium hydroxide 1310-73-2, Sodium hydroxide, uses 6168-72-5 7664-41-7, Ammonia, uses 9003-17-2, Polybutadiene 9003-20-7, Poly(vinyl acetate) 9003-31-0, Polyisoprene 9003-53-6, Polystyrene 9003-55-8, Styrene-butadiene copolymer 14002-34-7, Tripropanol amine 18912-81-7, Diethylene glycol monopentyl ether 24937-78-8, Ethylene-vinyl acetate copolymer 25014-31-7, Poly (α -methylstyrene) 25085-34-1, Styrene-acrylic acid copolymer 25300-64-5, Styrene-maleic acid copolymer 25961-89-1, Triethylene glycol monohexylether 25961-91-5, Triethylene glycol monopentyl ether 26067-37-4, Itaconic acid-styrene copolymer 29387-86-8, Propylene glycol monobutyl ether 35884-42-5, Dipropylene glycol monobutyl ether 85305-25-5, Dipropanol amine 197530-05-5 228263-99-8 228264-01-5 228264-03-7 228264-05-9 228264-09-3 228264-11-7 228264-83-3 228264-84-4 228264-85-5 228264-86-6 255393-50-1, Joncryl 352
RL: TEM (Technical or engineered material use); USES (Uses)
(in water-based ink-jet inks with good pigment dispersion stability and storage stability)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

10/594,519-309792-EIC SEARCH

L83 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1999:380802 HCAPLUS Full-text
 DOCUMENT NUMBER: 131:20212
 TITLE: Improving shape stability of cellulosic fiber cloth
 INVENTOR(S): Nakaoka, Yoshihiko
 PATENT ASSIGNEE(S): Takemoto Oil and Fat Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: ~~Patent~~
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11158773	A	19990615	JP 1997-343880	1997 1127

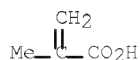
PRIORITY APPLN. INFO.: <-- JP 1997-343880
 1997
 1127

ED Entered STN: 21 Jun 1999
 AB Improving shape stability of cellulosic fiber cloth with no formaldehyde occurring comprises treatment of the cloth with a ~~water-soluble~~ vinyl polymer crosslinking agent and an inorg. salt. Thus, acrylic acid 360, 2-hydroxyethyl methacrylate 45, sodium methallylsulfonate 45 parts were polymerized to give a ~~water-soluble~~ polymer, 70 parts of which was mixed with 30 parts of sodium phosphate to treat cotton knit fabric, showing shrinkage <3%, good creaseproofing, , softening and color change resistance.
 IT 226218-85-5P, Ammonium methacrylate-2-hydroxyethyl methacrylate-sodium methallylsulfonate copolymer 226218-86-6P, Acrylic acid-2-hydroxyethyl methacrylate-itaconic acid Triethanolamine salt-sodium methallylsulfonate copolymer 226218-87-7P, Acrylic acid-2-hydroxyethyl methacrylate-ammonium methacrylate-sodium methallylsulfonate copolymer
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (improving shape stability of cellulosic fiber cloth)
 RN 226218-85-5 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with ammonium 2-methyl-2-propenoate and sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 16325-47-6

CMF C4 H6 O2 . H3 N



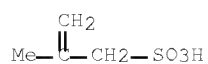
● NH3

CM 2

CRN 1561-92-8

10/594,519-309792-EIC SEARCH

CMF C4 H8 O3 S . Na

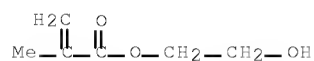


● Na

CM 3

CRN 868-77-9

CMF C6 H10 O3



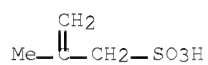
RN 226218-86-6 HCAPLUS

CN Butanedioic acid, methylene-, compd. with
 2,2',2''-nitrilotris[ethanol] (1:1), polymer with 2-hydroxyethyl
 2-methyl-2-propenoate, 2-propenoic acid and sodium
 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 1561-92-8

CMF C4 H8 O3 S . Na

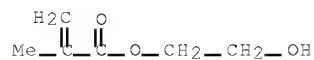


● Na

CM 2

CRN 868-77-9

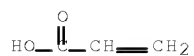
CMF C6 H10 O3



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

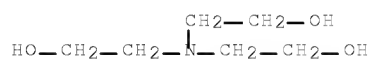
CRN 61839-16-5

CMF C6 H15 N O3 . C5 H6 O4

CM 5

CRN 102-71-6

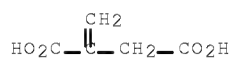
CMF C6 H15 N O3



CM 6

CRN 97-65-4

CMF C5 H6 O4



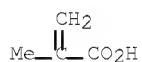
RN 226218-87-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with ammonium 2-methyl-2-propenoate, 2-propenoic acid and sodium 2-methyl-2-propene-1-sulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 16325-47-6

CMF C4 H6 O2 . H3 N

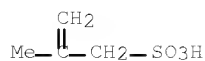


● NH3

CM 2

CRN 1561-92-8

CMF C4 H8 O3 S . Na



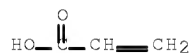
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 79-10-7
CMF C3 H4 O2



IC ICM D06M015-267
ICS C08F222-06; C08F290-06
CC 40-9 (Textiles and Fibers)
IT 165174-72-1P, Acrylic acid-polyethylene glycol methyl ether
methacrylate-sodium methallylsulfonate copolymer 226218-83-3P,
Acrylic acid-2-hydroxyethyl methacrylate-sodium methallylsulfonate
copolymer 226218-88-5P, Ammonium
methacrylate-2-hydroxyethyl methacrylate-sodium methallylsulfonate
copolymer 226218-86-6P, Acrylic acid-2-hydroxyethyl
methacrylate-itaconic acid Triethanolamine salt-sodium
methallylsulfonate copolymer 226218-87-7P, Acrylic
acid-2-hydroxyethyl methacrylate-ammonium methacrylate-sodium
methallylsulfonate copolymer 226218-89-9P, Maleic acid-methyl
methacrylate-sodium styrenesulfonate copolymer 226218-90-2P
226218-91-3P, Acrylic acid-polyethylene glycol phenyl ether
methacrylate-sodium styrenesulfonate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(improving shape stability of cellulosic fiber cloth)
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
THIS RECORD (1 CITINGS)

L83 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:115995 HCAPLUS Full-text
DOCUMENT NUMBER: 128:218469
ORIGINAL REFERENCE NO.: 128:43265a,43268a
TITLE: Aqueous pigmented inks with long storage
stability and providing high density printed
image
INVENTOR(S): Sakuma, Tadashi; Ishii, Masuki; Yanagi,

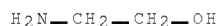
10/594,519-309792-EIC SEARCH

PATENT ASSIGNEE(S): Hideki; Suzuki, Shoichi; Wakabayashi, Shigemi;
 SOURCE: Tsujii, Yoshiaki; Aida, Kenji
 Kao Corp., Japan
 Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10046083	A	19980217	JP 1996-210263	1996 0808

PRIORITY APPLN. INFO.: <--
 JP 1996-210263
 1996
 0808
 <--

ED Entered STN: 26 Feb 1998
 AB Title inks comprise pigments, polymeric dispersants, water-soluble solvents, and water, where the polymer dispersants have weight-average mol. weight 5000-200000 and are copolymers of 10-50 parts of alkylene oxide adduct monomer CH₂:CXCOY [X = H, Me, CH₂CO₂(R₁)nR₂, CH₂CONR₃R₄; R₁ = C₂-3 alkylene; R₂ = H, C₁-3 alkyl; R₃ = (R₁)pR₂; R₄ = (R₁)qR₂; n, p, q = 1-300; Y = O(R₁)nR₂, NR₃R₄] and 50-90 parts of other monomers.
 IT 141-43-5, uses 203983-85-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (aqueous pigmented inks with long storage stability and providing high d. printed image)
 RN 141-43-5 HCAPLUS
 CN Ethanol, 2-amino- (CA INDEX NAME)

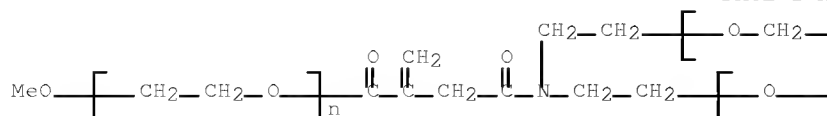


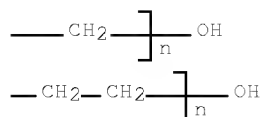
RN 203983-85-1 HCAPLUS
 CN Butanedioic acid, methylene-, diammonium salt, polymer with
 α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) ester ether
 with 4-[bis(2-hydroxyethyl)amino]-2-methylene-4-oxobutanoic acid
 (3:1) 1-methyl ether (9CI) (CA INDEX NAME)

CM 1

CRN 203983-84-0
 CMF (C₂ H₄ O)_n (C₂ H₄ O)_n (C₂ H₄ O)_n C₁₀ H₁₇ N O₅
 CCI PMS

PAGE 1-A

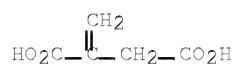




CM 2

CRN 7580-68-9

CMF C5 H6 O4 . 2 H3 N



●2 NH3

IT 203983-83-9, Itaconic acid-polyethylene glycol
monoacrylate copolymer 204201-55-8, Disodium
itaconate-polypropylene glycol monomethyl ether methacrylate
copolymer

RL: TEM (Technical or engineered material use); USES (Uses)
(polymer dispersant; aqueous pigmented inks with long
storage stability and providing high d. printed image)

RN 203983-83-9 HCAPLUS

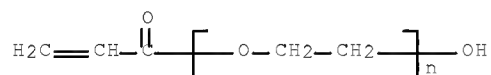
CN Butanedioic acid, methylene-, polymer with
 α -(1-oxo-2-propenyl)- ω -hydroxypoly(oxy-1,2-ethanediyl)
(9CI) (CA INDEX NAME)

CM 1

CRN 26403-58-7

CMF (C2 H4 O)n C3 H4 O2

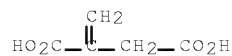
CCI PMS



CM 2

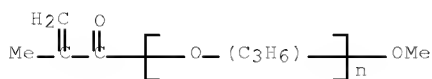
CRN 97-65-4

CMF C5 H6 O4

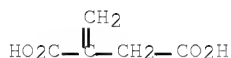


10/594,519-309792-EIC SEARCH

RN 204201-55-8 HCAPLUS
 CN Butanedioic acid, methylene-, disodium salt, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly[oxy(methyl-
 1,2-ethanediyl)] (9CI) (CA INDEX NAME)
 CM 1
 CRN 65932-26-5
 CMF (C3 H6 O)_n C5 H8 O2
 CCI IDS, PMS



CM 2
 CRN 5363-69-9
 CMF C5 H6 O4 . 2 Na



● 2 Na

IC ICM C09D011-00
 ICS C09D011-10
 CC 42-12 (Coatings, Inks, and Related Products)
 ST ink jet printing aq pigmented; vinyl oxyalkylene adduct polymer
 ink dispersant
 IT 111-46-6, Diethylene glycol, uses 141-43-5, uses
 147-14-8, C.I. Pigment Blue 15:1 80083-40-5, C.I. Pigment Red
 81:1 203983-85-1
 RL: TEM (Technical or engineered material use); USES (Uses)
 (aqueous pigmented inks with long storage stability and providing
 high d. printed image)
 IT 203983-83-9, Itaconic acid-polyethylene glycol
 monoacrylate copolymer 204201-55-8, Disodium
 itaconate-polypropylene glycol monomethyl ether methacrylate
 copolymer
 RL: TEM (Technical or engineered material use); USES (Uses)
 (polymer dispersant; aqueous pigmented inks with long
 storage stability and providing high d. printed image)

L83 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1996:629804 HCAPLUS Full-text
 DOCUMENT NUMBER: 125:250501
 ORIGINAL REFERENCE NO.: 125:46793a, 46796a
 TITLE: Water-based pigment compositions containing
 acrylic polymer emulsions with good
 storage stability
 INVENTOR(S): Kato, Akimitsu; Kobayashi, Juichi
 PATENT ASSIGNEE(S): Pentel Kk, Japan; Pentel Co., Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF

10/594,519-309792-EIC SEARCH

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08199093	A	19960806	JP 1995-30099	1995 0126
JP 3702373	B2	20051005	JP 1995-30099	1995 0126

ED Entered STN: 24 Oct 1996

AB The compns. contain pigments, acrylate ester polymer emulsions, water-soluble solvents with high b. p., condensed naphthalenesulfonate salts, $[\text{CH}_2\text{CR}(\text{CO}_2\text{M})]_n$ (I; R = C1-10 alkyl, $n \geq 1$; M = Na, K, NH_4), and H_2O as essential components, and useful for water-resistant poster colors or watercolor paintings. A yellow composition containing Hansa Yellow G 10, poly(Et acrylate) emulsion 10, hydroxyethyl cellulose 0.5, glycerin 5, condensed Na naphthalenesulfonate 0.5, I (M = Na, R = Et) 0.5, H_2O 33, diethanolamine 0.5, and CaCO_3 40 parts showed fluidity (JIS K-5101; 10.1) 52.1 mm initially and 51.0 mm after 10 days at room temperature

IT 182229-44-3 182229-46-5
 182229-48-7 182229-50-1

RL: MOA (Modifier or additive use); USES (Uses)
 (water-based pigment compns. with good storage stability containing)

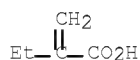
RN 182229-44-3 HCAPLUS

CN Butanoic acid, 2-methylene-, sodium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 182229-43-2

CMF C5 H8 O2 . Na



● Na

RN 182229-46-5 HCAPLUS

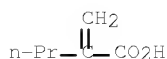
CN Pentanoic acid, 2-methylene-, sodium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 182229-45-4

CMF C6 H10 O2 . Na

10/594,519-309792-EIC SEARCH

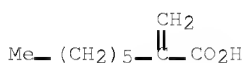


● Na

RN 182229-48-7 HCAPLUS
CN Octanoic acid, 2-methylene-, ammonium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 182229-47-6
CMF C9 H16 O2 . H3 N

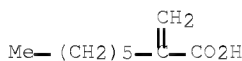


● NH3

RN 182229-50-1 HCAPLUS
CN Octanoic acid, 2-methylene-, potassium salt, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 182229-49-8
CMF C9 H16 O2 . K



● K

IC ICM C09D005-06
ICS C09D017-00; C09D133-02; C09D133-08
CC 42-6 (Coatings, Inks, and Related Products)
ST water based pigment compn storage stability; poster color pigment compn storage stability; painting pigment compn water based; acrylate ester polymer emulsion pigment compn; polyethyl acrylate emulsion pigment compn; naphthalenesulfonate salt pigment compn storage stability; gelation prevention water based pigment compn
IT Pigments
(water-based acrylate polymer emulsions with good storage stability containing)
IT Emulsions
(water-based; pigment compns. containing acrylate polymers, condensed naphthalenesulfonate salts and carboxylate-substituted polymers with good storage stability)
IT Paintings
(watercolor, pigment compns. containing acrylic polymer

10/594,519-309792-EIC SEARCH

emulsions with good storage stability for)
 IT 9003-32-1, Poly(ethyl acrylate) 25852-37-3, Butyl
 acrylate-methyl methacrylate copolymer 27813-99-6, Butyl
 methacrylate-ethyl acrylate copolymer
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (emulsions; water-based pigment compns. containing
 condensed naphthalenesulfonate salts with good storage
 stability)
 IT 2512-29-0, Hansa Yellow G 5281-04-9 57455-37-5, C.I. Pigment
 Blue 29
 RL: TEM (Technical or engineered material use); USES (Uses)
 (pigment; water-based acrylate polymer emulsions with
 good storage stability containing)
 IT 182229-44-3 182229-46-5
 182229-48-7 182229-50-1
 RL: MOA (Modifier or additive use); USES (Uses)
 (water-based pigment compns. with good storage stability
 containing)
 IT 25155-19-5D, Naphthalenesulfonic acid, condensates, sodium salt
 RL: MOA (Modifier or additive use); USES (Uses)
 (water-based pigment compns.; containing acrylate polymer
 emulsions with good storage stability)

L83 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1992:129953 HCAPLUS Full-text

DOCUMENT NUMBER: 116:129953

ORIGINAL REFERENCE NO.: 116:22033a,22036a

TITLE: Manufacture of water-soluble
 ester salts of itaconic acid copolymers

INVENTOR(S): Wlasiuk, Danuta; Klopotek, Alojzy

PATENT ASSIGNEE(S): Instytut Chemii Przemyslowej, Pol.

SOURCE: Pol., 11 pp. Abstracted and indexed from the
 unexamined application.

CODEN: POXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Polish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PL 153127	B1	19910329	PL 1987-265244	

1987

0417

<--

PRIORITY APPLN. INFO.: PL 1987-265244

1987

0417

<--

ED Entered STN: 03 Apr 1992

AB Products useful as complexing agents and surfactants are manufactured by partially
 esterifying 1-10:1-3 itaconic acid-maleic anhydride copolymers (I) with 0.01-2.5 mol
 C10-22 fatty alc., polyethoxylated C10-22 fatty alc. (d.p. 6-20), or polyethoxylated
 (C6-22-alkyl)phenol at 343-383 K and neutralizing with alkali metal hydroxides, NH₃,
 and or alkanolamines at 293-323 K. Thus, a 130-600 I was heated in dioxane with 6 g
 polyethoxylated nonylphenol (d.p. 8) and stripped to give 245 g product (mol. weight
 5500) which was neutralized (240 g) with 763 g 20% NaOH at 293 K to give a 38.5%
 solution of polymer with Ca²⁺ and Mg²⁺ complexation 82.9 and 0.9 mg/g at pH 9 and
 surface tension of a 0.5% aqueous solution 65 dynes/cm.

IT 139247-10-2P

RL: PREP (Preparation)
 (manufacture of water soluble, for surfactants and
 complexing agents)

RN 139247-10-2 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2,5-furandione, ester

10/594,519-309792-EIC SEARCH

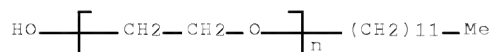
with α -dodecyl- ω -hydroxypoly(oxy-1,2-ethanediyl),
potassium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



CM 2

CRN 28391-42-6

CMF (C5 H6 O4 . C4 H2 O3)_x

CCI PMS

CM 3

CRN 108-31-6

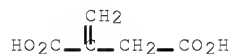
CMF C4 H2 O3



CM 4

CRN 97-65-4

CMF C5 H6 O4



IT 139247-12-4P 139247-14-6P
139604-08-3P 139604-09-4P

RL: PREP (Preparation)

(manufacture of water-soluble, for surfactants and
complexing agents)

RN 139247-12-4 HCAPLUS

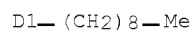
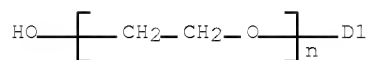
CN Butanedioic acid, methylene-, polymer with 2,5-furandione, ester
with α -(nonylphenyl)- ω -hydroxypoly(oxy-1,2-
ethanediyl), sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS



CM 2

CRN 28391-42-6

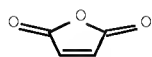
CMF (C5 H6 O4 . C4 H2 O3)x

CCI PMS

CM 3

CRN 108-31-6

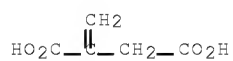
CMF C4 H2 O3



CM 4

CRN 97-65-4

CMF C5 H6 O4



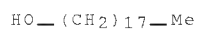
RN 139247-14-6 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2,5-furandione, octadecyl ester, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 112-92-5

CMF C18 H38 O



CM 2

CRN 28391-42-6

CMF (C5 H6 O4 . C4 H2 O3)x

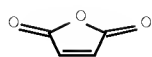
CCI PMS

10/594,519-309792-EIC SEARCH

CM 3

CRN 108-31-6

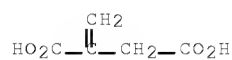
CMF C4 H2 O3



CM 4

CRN 97-65-4

CMF C5 H6 O4



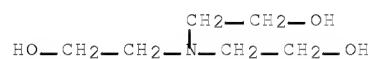
RN 139604-08-3 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2,5-furandione, ether with α -octadecyl- ω -hydroxypoly(oxy-1,2-ethanediyl), compd. with 2,2',2''-nitrilotris[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 139247-11-3

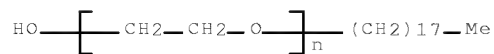
CMF (C5 H6 O4 . C4 H2 O3)x . x (C2 H4 O)n C18 H38 O

CM 3

CRN 9005-00-9

CMF (C2 H4 O)n C18 H38 O

CCI PMS



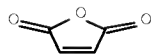
CM 4

10/594,519-309792-EIC SEARCH

CRN 28391-42-6
CMF (C5 H6 O4 . C4 H2 O3)x
CCI PMS

CM 5

CRN 108-31-6
CMF C4 H2 O3



CM 6

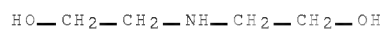
CRN 97-65-4
CMF C5 H6 O4



RN 139604-09-4 HCAPLUS
CN Butanedioic acid, methylene-, polymer with 2,5-furandione, dodecyl ester, compd. with 2,2'-iminobis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 111-42-2
CMF C4 H11 N O2

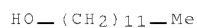


CM 2

CRN 139247-13-5
CMF C12 H26 O . x (C5 H6 O4 . C4 H2 O3)x

CM 3

CRN 112-53-8
CMF C12 H26 O



CM 4

CRN 28391-42-6
CMF (C5 H6 O4 . C4 H2 O3)x

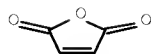
10/594,519-309792-EIC SEARCH

CCI PMS

CM 5

CRN 108-31-6

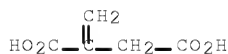
CMF C4 H2 O3



CM 6

CRN 97-65-4

CMF C5 H6 O4



IC ICM C08F220-04
ICS C08F222-06
CC 35-8 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 46
IT 139247-10-2P
RL: PREP (Preparation)
(manufacture of water soluble, for surfactants and complexing agents)
IT 139247-12-4P 139247-14-6P
139604-08-3P 139604-09-4P
RL: PREP (Preparation)
(manufacture of water-soluble, for surfactants and complexing agents)

L83 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1991:124811 HCAPLUS Full-text
DOCUMENT NUMBER: 114:124811
ORIGINAL REFERENCE NO.: 114:21249a,21252a
TITLE: Decomposition suppressants for basic calcium carbonate platelets
INVENTOR(S): Nagami, Kyoichi; Saito, Fumikazu; Machida, Masahiro
PATENT ASSIGNEE(S): Chichibu Lime Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02129020	A	19900517	JP 1988-282103	1988

1108

PRIORITY APPLN. INFO.: <--
JP 1988-282103

1988

<--

ED Entered STN: 06 Apr 1991

AB The title suppressants for $2\text{CaCO}_3 \cdot x\text{Ca}(\text{OH})_2 \cdot y\text{H}_2\text{O}$ ($x = 0.5-1.0$; $y = 0.7-1.5$) platelets useful as paper pigments with good ink absorption are water-soluble copolymers (mol. weight 1000-50,000) of 40-99.5 mol% unsatd. carboxylic acid $\text{A}_1\text{A}_2\text{C:CA}_3\text{CO}_2\text{X}_1$ ($\text{A}_1, \text{A}_2 = \text{H}, \text{Me}, \text{CO}_2\text{X}_2$, excluding $\text{A}_1 = \text{A}_2 = \text{CO}_2\text{X}_1$; $\text{A}_3 = \text{H}, \text{Me}, \text{CH}_2\text{CO}_2\text{X}_3$; when $\text{A}_3 = \text{CH}_2\text{X}_3$, $\text{A}_1, \text{A}_2 = \text{H}, \text{Me}$; $\text{X}_1-3 = \text{H}$, mono- or divalent metal, NH_4 , organic amine residue) and 60-0.5 mol% unsatd. (meth)allyl ether $\text{CH}_2\text{CRCH}_2\text{OCH}_2\text{CH}(\text{OH})\text{CH}_2\text{Z}$ ($\text{R} = \text{H}, \text{Me}$; $\text{Z} = \text{OH}$, sulfo or salt, phosphoric or phosphorus acid group or salt). Thus, 100 parts I ($x = 0.63$; $y = 0.86$) stored in water with 1.6 parts 80:20 acrylic acid-3-allyloxy-2-hydroxypropanesulfonic acid copolymer Na salt (mol. weight 4000) at 80° for 48 h showed decomposition <10%.

IT 130977-98-9 130978-00-6

RL: USES (Uses)

(decomposition suppressants, for basic calcium carbonate)

RN 130977-98-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 3-(2-propenyloxy)-1,2-propanediol, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 130977-97-8

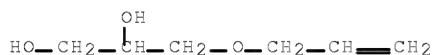
CMF $(\text{C}_6 \text{ H}_{12} \text{ O}_3 \cdot \text{C}_4 \text{ H}_6 \text{ O}_2)_x$

CCI PMS

CM 2

CRN 123-34-2

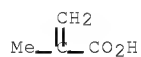
CMF $\text{C}_6 \text{ H}_{12} \text{ O}_3$



CM 3

CRN 79-41-4

CMF $\text{C}_4 \text{ H}_6 \text{ O}_2$



RN 130978-00-6 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-propenoic acid and 3-(2-propenyloxy)-1,2-propanediol, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 130261-95-9

CMF $(\text{C}_6 \text{ H}_{12} \text{ O}_3 \cdot \text{C}_5 \text{ H}_6 \text{ O}_4 \cdot \text{C}_3 \text{ H}_4 \text{ O}_2)_x$

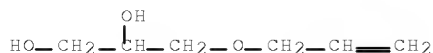
CCI PMS

CM 2

CRN 123-34-2

CMF $\text{C}_6 \text{ H}_{12} \text{ O}_3$

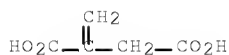
10/594,519-309792-EIC SEARCH



CM 3

CRN 97-65-4

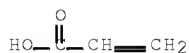
CMF C5 H6 O4



CM 4

CRN 79-10-7

CMF C3 H4 O2



IC ICM C01F011-18
 ICS C08F216-14; C08F220-04; C09K015-06; C09K015-12
 CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
 IT 104603-74-9 105062-72-4, Acrylic
 acid-3-allyloxy-2-hydroxypropanesulfonic acid copolymer sodium
 salt 125938-65-0 125938-67-2 130977-96-7
~~130977-98-9~~ 130977-99-0 ~~130978-00-6~~
 130978-02-8 131026-26-1
 RL: USES (Uses)
 (decomposition suppressants, for basic calcium carbonate)

L83 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1987:90162 HCAPLUS Full-text

DOCUMENT NUMBER: 106:90162

ORIGINAL REFERENCE NO.: 106:14699a,14702a

TITLE: Anticoagulant preparation from organic acids
and aminesINVENTOR(S): Murashige, Yoshio; Miyagawa, Chosaku; Kawachi,
Yasunofu; Fujimoto, Junko

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: ~~Patent~~

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 61215325	A	19860925	JP 1985-56464	1985

10/594,519-309792-EIC SEARCH

0320

PRIORITY APPLN. INFO.:

<--
JP 1985-56464

1985

0320

<--

ED Entered STN: 21 Mar 1987

AB A water-soluble anticoagulant is prepared by treating a polymerizable organic acid such as acrylic acid with an amine in the presence of soluble vinyl monomer like K methacrylate. Thus, acrylic acid 7.2, K methacrylate 3.6, K allylsulfonate 3.6 g, and 12 mL H₂O were mixed and treated with 5.4 g monoethanolamine to give anticoagulant copolymer. Fresh blood (1-15 mL) mixed with 0.02 mL containing 15% weight/volume of the anticoagulant did not coagulate and did not alter the characteristics of blood corpuscles, blood platelets, etc.

IT 106704-53-4P 106704-54-5P
 106704-55-7P 106704-58-9P
 106704-60-3P 106704-61-4P
 106704-62-5P 106704-64-7P
 106704-65-9P 106704-68-1P
 106704-70-5P 106704-72-7P
 106704-74-9P 106704-76-1P
 106704-78-3P 106704-80-7P
 106704-82-9P 106704-83-0P
 106705-05-9P 106705-06-0P
 106705-07-1P 106705-08-2P
 106726-04-9P 106726-05-0P
 106726-07-2P 106726-08-3P
 106771-12-4P

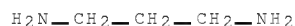
RL: THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of, as anticoagulant)

RN 106704-53-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
 potassium 2-propene-1-sulfonate and 2-propenoic acid, compd. with
 1,3-propanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-76-2
 CMF C3 H10 N2

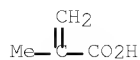


CM 2

CRN 106704-52-3
 CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x
 CCI PMS

CM 3

CRN 6900-35-2
 CMF C4 H6 O2 . K



● K

10/594,519-309792-EIC SEARCH

CM 4

CRN 3934-13-2

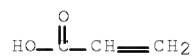
CMF C3 H6 O3 S . K



CM 5

CRN 79-10-7

CMF C3 H4 O2



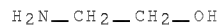
RN 106704-54-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
potassium 2-propene-1-sulfonate and 2-propenoic acid, compd. with
2-aminoethanol (9CI) (CA INDEX NAME)

CM 1

CRN 141-43-5

CMF C2 H7 N O



CM 2

CRN 106704-52-3

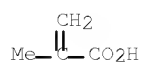
CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

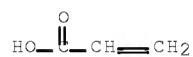


● K

CM 5

CRN 79-10-7

CMF C3 H4 O2



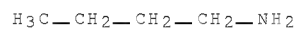
RN 106704-56-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with potassium
2-methyl-2-propenoate and potassium 2-propene-1-sulfonate, compd.
with 1-butanamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-73-9

CMF C4 H11 N



CM 2

CRN 106704-57-8

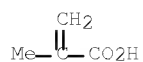
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

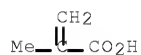


● K

CM 5

CRN 79-41-4

CMF C4 H6 O2



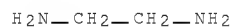
RN 106704-58-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with potassium
2-methyl-2-propenoate and potassium 2-propene-1-sulfonate, compd.
with 1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3

CMF C2 H8 N2



CM 2

CRN 106704-57-8

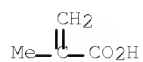
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

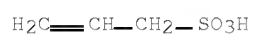


● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

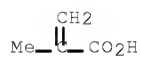


● K

CM 5

CRN 79-41-4

CMF C4 H6 O2



RN 106704-60-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with potassium
2-methyl-2-propenoate and sodium 2-propene-1-sulfonate, compd.
with 1,3-propanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-76-2

CMF C3 H10 N2



CM 2

CRN 106704-59-0

CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . K . Na)x

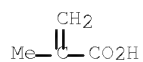
CCI PMS

CM 3

CRN 6900-35-2

10/594,519-309792-EIC SEARCH

CMF C4 H6 O2 . K

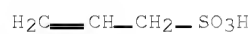


● K

CM 4

CRN 2495-39-8

CMF C3 H6 O3 S . Na

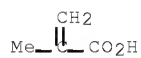


● Na

CM 5

CRN 79-41-4

CMF C4 H6 O2



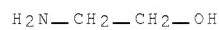
RN 106704-61-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with potassium
2-methyl-2-propenoate and sodium 2-propene-1-sulfonate, compd.
with 2-aminoethanol (9CI) (CA INDEX NAME)

CM 1

CRN 141-43-5

CMF C2 H7 N O



CM 2

CRN 106704-59-0

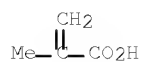
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . K . Na)x

CCI PMS

CM 3

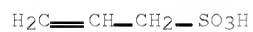
10/594,519-309792-EIC SEARCH

CRN 6900-35-2
CMF C4 H6 O2 . K



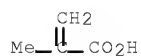
CM 4

CRN 2495-39-8
CMF C3 H6 O3 S . Na



CM 5

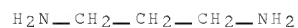
CRN 79-41-4
CMF C4 H6 O2



RN 106704-62-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with potassium
2-methyl-2-propenoate and potassium 2-propene-1-sulfonate, compd.
with 1-butanamine, 1,2-ethanediamine and 1,3-propanediamine (9CI)
(CA INDEX NAME)

CM 1

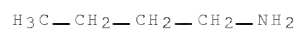
CRN 109-76-2
CMF C3 H10 N2



CM 2

CRN 109-73-9
CMF C4 H11 N

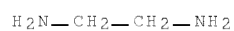
10/594,519-309792-EIC SEARCH



CM 3

CRN 107-15-3

CMF C2 H8 N2



CM 4

CRN 106704-57-8

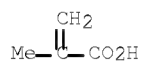
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . 2 K)x

CCI PMS

CM 5

CRN 6900-35-2

CMF C4 H6 O2 . K

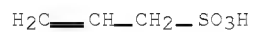


● K

CM 6

CRN 3934-13-2

CMF C3 H6 O3 S . K

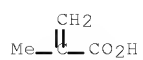


● K

CM 7

CRN 79-41-4

CMF C4 H6 O2



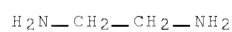
10/594,519-309792-EIC SEARCH

RN 106704-64-7 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with potassium
 2-methyl-2-propenoate and potassium 2-propene-1-sulfonate, compd.
 with 1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3

CMF C2 H8 N2



CM 2

CRN 106704-63-6

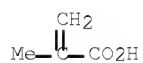
CMF (C5 H6 O4 . C4 H6 O2 . C3 H6 O3 S . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

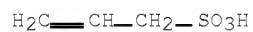


● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

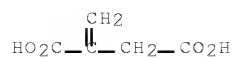


● K

CM 5

CRN 97-65-4

CMF C5 H6 O4

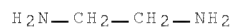


10/594,519-309792-EIC SEARCH

RN 106704-66-9 HCAPLUS
 CN 2-Butenoic acid, polymer with potassium 2-methyl-2-propenoate and
 potassium 2-propene-1-sulfonate, compd. with 1,2-ethanediamine
 (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3
 CMF C2 H8 N2

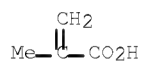


CM 2

CRN 106704-69-2
 CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . 2 K)x
 CCI PMS

CM 3

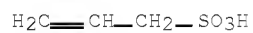
CRN 6900-35-2
 CMF C4 H6 O2 . K



● K

CM 4

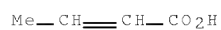
CRN 3934-13-2
 CMF C3 H6 O3 S . K



● K

CM 5

CRN 3724-65-0
 CMF C4 H6 O2



10/594,519-309792-EIC SEARCH

RN 106704-68-1 HCAPLUS
 CN 2-Butenoic acid, polymer with potassium 2-methyl-2-propenoate,
 compd. with 1,3-propanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-76-2
 CMF C3 H10 N2

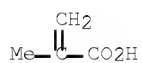


CM 2

CRN 106704-67-0
 CMF (C4 H6 O2 . C4 H6 O2 . K) x
 CCI PMS

CM 3

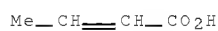
CRN 6900-35-2
 CMF C4 H6 O2 . K



● K

CM 4

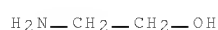
CRN 3724-65-0
 CMF C4 H6 O2



RN 106704-70-5 HCAPLUS
 CN 2-Butenoic acid, polymer with potassium 2-methyl-2-propenoate and
 potassium 2-propene-1-sulfonate, compd. with 2-aminoethanol (9CI)
 (CA INDEX NAME)

CM 1

CRN 141-43-5
 CMF C2 H7 N O



10/594,519-309792-EIC SEARCH

CM 2

CRN 106704-69-2

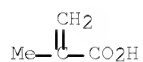
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

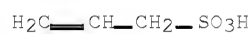


● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

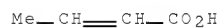


● K

CM 5

CRN 3724-65-0

CMF C4 H6 O2



RN 106704-72-7 HCAPLUS

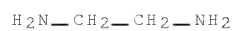
CN 2-Propenoic acid, 2-methyl-, polymer with potassium
2-methyl-2-propenoate, potassium 2-propene-1-sulfonate and
2-propenoic acid, compd. with 1,2-ethanediamine (9CI) (CA INDEX
NAME)

CM 1

CRN 107-15-3

CMF C2 H8 N2

10/594,519-309792-EIC SEARCH



CM 2

CRN 106704-71-6

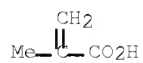
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K) x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

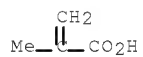


● K

CM 5

CRN 79-41-4

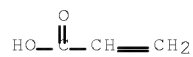
CMF C4 H6 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



10/594,519-309792-EIC SEARCH

RN 106704-74-9 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with potassium
 2-methyl-2-propenoate, potassium 2-propene-1-sulfonate and
 2-propenoic acid, compd. with 1,3-propanediamine (9CI) (CA INDEX
 NAME)

CM 1

CRN 109-76-2
 CMF C3 H10 N2

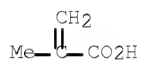


CM 2

CRN 106704-73-8
 CMF (C5 H6 O4 . C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x
 CCI PMS

CM 3

CRN 6900-35-2
 CMF C4 H6 O2 . K



● K

CM 4

CRN 3934-13-2
 CMF C3 H6 O3 S . K

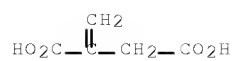


● K

CM 5

CRN 97-65-4
 CMF C5 H6 O4

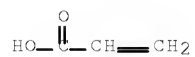
10/594,519-309792-EIC SEARCH



CM 6

CRN 79-10-7

CMF C3 H4 O2



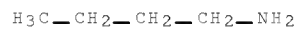
RN 106704-76-1 HCAPLUS

CN 2-Butenoic acid, polymer with potassium 2-methyl-2-propenoate,
potassium 2-propene-1-sulfonate and 2-propenoic acid, compd. with
1-butanamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-73-9

CMF C4 H11 N



CM 2

CRN 106704-75-0

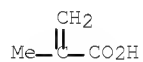
CMF (C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



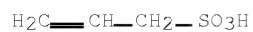
● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

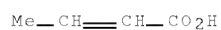
10/594,519-309792-EIC SEARCH



CM 5

CRN 3724-65-0

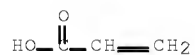
CMF C4 H6 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



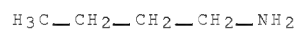
RN 106704-78-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
2-propenoic acid, compd. with 1-butanamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-73-9

CMF C4 H11 N



CM 2

CRN 106704-77-2

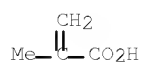
CMF (C4 H6 O2 . C3 H4 O2 . K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

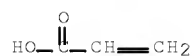


● K

CM 4

CRN 79-10-7

CMF C3 H4 O2



RN 106704-80-7 HCAPLUS

CN 2-Butenoic acid, polymer with 2-methyl-2-propenoic acid, potassium
2-methyl-2-propenoate, potassium 2-propene-1-sulfonate and
2-propenoic acid, compd. with 1-butanamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-73-9

CMF C4 H11 N



CM 2

CRN 106704-79-4

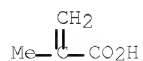
CMF (C4 H6 O2 . C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2
K) x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

CM 4

CRN 3934-13-2

10/594,519-309792-EIC SEARCH

CMF C3 H6 O3 S . K



CM 5

CRN 3724-65-0

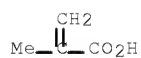
CMF C4 H6 O2



CM 6

CRN 79-41-4

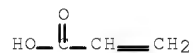
CMF C4 H6 O2



CM 7

CRN 79-10-7

CMF C3 H4 O2



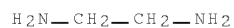
RN 106704-82-9 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-methyl-2-propenoic acid, potassium 2-methyl-2-propenoate and sodium 2-propene-1-sulfonate, compd. with 1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3

CMF C2 H8 N2



10/594,519-309792-EIC SEARCH

CM 2

CRN 106704-81-8

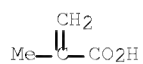
CMF (C5 H6 O4 . C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . K . Na)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



CM 4

CRN 2495-39-8

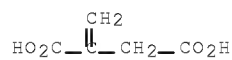
CMF C3 H6 O3 S . Na



CM 5

CRN 97-65-4

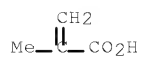
CMF C5 H6 O4



CM 6

CRN 79-41-4

CMF C4 H6 O2



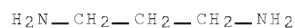
RN 106704-83-0 HCAPLUS

10/594,519-309792-EIC SEARCH

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
2-propenoic acid and potassium 2-propene-1-sulfonate, compd. with
1-butanamine, 1,2-ethanediamine and 1,3-propanediamine (9CI) (CA
INDEX NAME)

CM 1

CRN 109-76-2
CMF C3 H10 N2



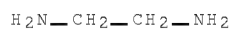
CM 2

CRN 109-73-9
CMF C4 H11 N



CM 3

CRN 107-15-3
CMF C2 H8 N2

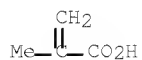


CM 4

CRN 106704-52-3
CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x
CCI PMS

CM 5

CRN 6900-35-2
CMF C4 H6 O2 . K

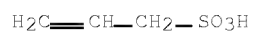


● K

CM 6

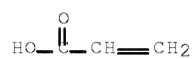
10/594,519-309792-EIC SEARCH

CRN 3934-13-2
CMF C3 H6 O3 S . K



CM 7

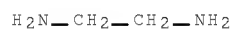
CRN 79-10-7
CMF C3 H4 O2



RN 106705-05-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
2-propenoic acid and potassium 2-propene-1-sulfonate, compd. with
1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3
CMF C2 H8 N2

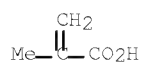


CM 2

CRN 106704-52-3
CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x
CCI PMS

CM 3

CRN 6900-35-2
CMF C4 H6 O2 . K



CM 4

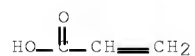
10/594,519-309792-EIC SEARCH

CRN 3934-13-2
CMF C3 H6 O3 S . K



CM 5

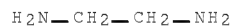
CRN 79-10-7
CMF C3 H4 O2



RN 106705-06-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
2-propenoic acid and sodium 2-propene-1-sulfonate, compd. with
1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3
CMF C2 H8 N2

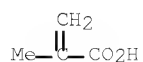


CM 2

CRN 107679-83-4
CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . K . Na)x
CCI PMS

CM 3

CRN 6900-35-2
CMF C4 H6 O2 . K



10/594,519-309792-EIC SEARCH

CM 4

CRN 2495-39-8

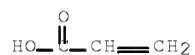
CMF C3 H6 O3 S . Na



CM 5

CRN 79-10-7

CMF C3 H4 O2



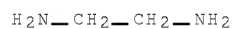
RN 106705-07-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
2-propenoic acid, compd. with 1,2-ethanediamine (9CI) (CA INDEX
NAME)

CM 1

CRN 107-15-3

CMF C2 H8 N2



CM 2

CRN 106704-77-2

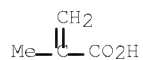
CMF (C4 H6 O2 . C3 H4 O2 . K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

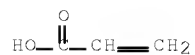


10/594,519-309792-EIC SEARCH

CM 4

CRN 79-10-7

CMF C3 H4 O2



RN 106705-08-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with potassium 2-propene-1-sulfonate and 2-propenoic acid, compd. with 1-butanamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-73-9

CMF C4 H11 N



CM 2

CRN 106704-52-3

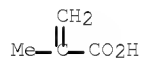
CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K



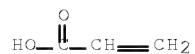
● K

10/594,519-309792-EIC SEARCH

CM 5

CRN 79-10-7

CMF C3 H4 O2



RN 106726-04-9 HCAPLUS

CN Butanedioic acid, methylene-, polymer with potassium
2-methyl-2-propenoate and sodium 2-propene-1-sulfonate, compd.
with 1,3-propanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-76-2

CMF C3 H10 N2



CM 2

CRN 106726-03-8

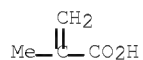
CMF (C5 H6 O4 . C4 H6 O2 . C3 H6 O3 S . K . Na)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

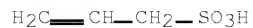


● K

CM 4

CRN 2495-39-8

CMF C3 H6 O3 S . Na



● Na

10/594,519-309792-EIC SEARCH

CM 5

CRN 97-65-4

CMF C5 H6 O4



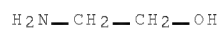
RN 106726-05-0 HCAPLUS

CN Butanedioic acid, methylene-, polymer with potassium
2-methyl-2-propenoate and potassium 2-propene-1-sulfonate, compd.
with 2-aminoethanol and 1-butanamine (9CI) (CA INDEX NAME)

CM 1

CRN 141-43-5

CMF C2 H7 N O



CM 2

CRN 109-73-9

CMF C4 H11 N



CM 3

CRN 106704-63-6

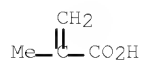
CMF (C5 H6 O4 . C4 H6 O2 . C3 H6 O3 S . 2 K)x

CCI PMS

CM 4

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

10/594,519-309792-EIC SEARCH

CM 5

CRN 3934-13-2

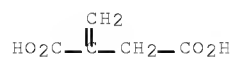
CMF C3 H6 O3 S . K



CM 6

CRN 97-65-4

CMF C5 H6 O4



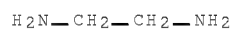
RN 106726-07-2 HCAPLUS

CN Butanedioic acid, methylene-, polymer with 2-methyl-2-propenoic acid, potassium 2-methyl-2-propenoate, potassium 2-propene-1-sulfonate, 2-propenoic acid and sodium 2-propene-1-sulfonate, compd. with 1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 107-15-3

CMF C2 H8 N2



CM 2

CRN 106726-06-1

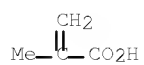
CMF (C5 H6 O4 . C4 H6 O2 . C4 H6 O2 . C3 H6 O3 S . C3 H6 O3 S . C3 H4 O2 . 2 K . Na)x

CCI PMS

CM 3

CRN 6900-35-2

CMF C4 H6 O2 . K

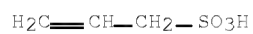


● K

CM 4

CRN 3934-13-2

CMF C3 H6 O3 S . K

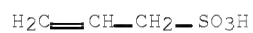


● K

CM 5

CRN 2495-39-8

CMF C3 H6 O3 S . Na

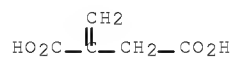


● Na

CM 6

CRN 97-65-4

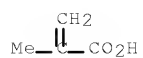
CMF C5 H6 O4



CM 7

CRN 79-41-4

CMF C4 H6 O2

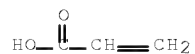


10/594,519-309792-EIC SEARCH

CM 8

CRN 79-10-7

CMF C3 H4 O2



RN 106726-08-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
potassium 2-propene-1-sulfonate and 2-propenoic acid, compd. with
1,2-ethanediamine and 1,3-propanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 109-76-2

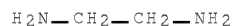
CMF C3 H10 N2



CM 2

CRN 107-15-3

CMF C2 H8 N2



CM 3

CRN 106704-52-3

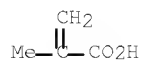
CMF (C4 H6 O2 . C3 H6 O3 S . C3 H4 O2 . 2 K)x

CCI PMS

CM 4

CRN 6900-35-2

CMF C4 H6 O2 . K



● K

10/594,519-309792-EIC SEARCH

CM 5

CRN 3934-13-2

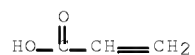
CMF C3 H6 O3 S . K



CM 6

CRN 79-10-7

CMF C3 H4 O2



RN 106771-12-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, potassium salt, polymer with
2-propenoic acid, compd. with 1-butanamine and 1,2-ethanediamine
(9CI) (CA INDEX NAME)

CM 1

CRN 109-73-9

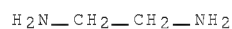
CMF C4 H11 N



CM 2

CRN 107-15-3

CMF C2 H8 N2



CM 3

CRN 106704-77-2

CMF (C4 H6 O2 . C3 H4 O2 . K) x

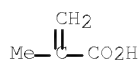
CCI PMS

CM 4

CRN 6900-35-2

10/594,519-309792-EIC SEARCH

CMF C4 H6 O2 . K

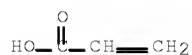


● K

CM 5

CRN 79-10-7

CMF C3 H4 O2



IC ICM A61K031-785

ICA G01N033-48

CC 63-5 (Pharmaceuticals)

IT 106704-53-4P 106704-54-5P
 106704-56-7P 106704-58-9P
 106704-60-3P 106704-61-4P
 106704-62-5P 106704-64-7P
 106704-66-9P 106704-68-1P
 106704-70-5P 106704-72-7P
 106704-74-9P 106704-76-1P
 106704-78-3P 106704-80-7P
 106704-82-9P 106704-83-0P
 106705-05-9P 106705-06-0P
 106705-07-1P 106705-08-2P
 106726-04-9P 106726-05-0P
 106726-07-2P 106726-08-3P
 106771-12-4P

RL: THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of, as anticoagulant)

L83 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:150894 HCAPLUS Full-text

DOCUMENT NUMBER: 104:150894

ORIGINAL REFERENCE NO.: 104:23889a,23892a

TITLE: Dispersants for inorganic pigments

INVENTOR(S): Kanemori, Masao; Goto, Masao

PATENT ASSIGNEE(S): Sanyo Chemical Industries Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 60181167	A	19850914	JP 1984-38944	

1984
0229

10/594,519-309792-EIC SEARCH

PRIORITY APPLN. INFO.:

<--
JP 1984-389441984
0229

<--

ED Entered STN: 03 May 1986

AB A dispersant for an inorg. pigment, giving a storage-stable aqueous coating, comprises a water-soluble (meth)acrylic acid (salt) copolymer containing 0.5-50% sulfosuccinic acid (meth)allyl ester (salt). Thus, 242.6 g 40% aqueous solution of 8:2 mol ratio acrylic acid-lauryl allyl sulfosuccinate ammonium salt copolymer was mixed with 500 g CaCO₃ (average diameter 0.15 μ) to give a 68% aqueous dispersion exhibiting viscosity 300 cP initially and 310 cP after 3 days, compared with 15000 and 18000 cP, resp., when poly(acrylic acid) was used as a dispersant.

IT 101124-84-9 101124-87-2
101124-90-7 101124-93-0 101124-97-4
101222-33-7 101223-33-0

RL: USES (Uses)

(dispersants, for inorg. pigments, in manufacture of
storage-stable aqueous coatings)

RN 101124-84-9 HCAPLUS

CN Butanedioic acid, methylene-, polymer with C-ethyl C-2-propenyl
sulfobutanedioate and 2-propenoic acid, sodium salt (9CI) (CA
INDEX NAME)

CM 1

CRN 101124-83-8

CMF (C9 H14 O7 S . C5 H6 O4 . C3 H4 O2)x

CCI PMS

CM 2

CRN 97-65-4

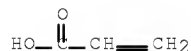
CMF C5 H6 O4



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 101124-82-7

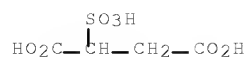
CMF C9 H14 O7 S

CCI IDS

CM 5

CRN 5138-18-1

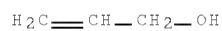
CMF C4 H6 O7 S



CM 6

CRN 107-18-6

CMF C3 H6 O



CM 7

CRN 64-17-5

CMF C2 H6 O



RN 101124-87-2 HCAPLUS

CN Butanedioic acid, methylene-, polymer with C-butyl
C-(2-methyl-2-propenyl) sulfobutanedioate and 2-propenoic acid,
sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 101124-86-1

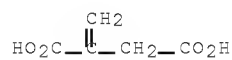
CMF (C12 H20 O7 S . C5 H6 O4 . C3 H4 O2)x

CCI PMS

CM 2

CRN 97-65-4

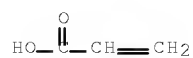
CMF C5 H6 O4



CM 3

CRN 79-10-7

CMF C3 H4 O2



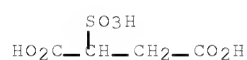
10/594,519-309792-EIC SEARCH

CM 4

CRN 101124-85-0
CMF C12 H20 O7 S
CCI IDS

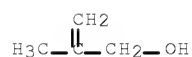
CM 5

CRN 5138-18-1
CMF C4 H6 O7 S



CM 6

CRN 513-42-8
CMF C4 H8 O



CM 7

CRN 71-36-3
CMF C4 H10 O



RN 101124-90-7 HCAPLUS
CN Butanedioic acid, methylene-, C-(2-methyl-2-propenyl) C-octyl
sulFOButanedioate and 2-propenoic acid, ammonium salt (9CI) (CA
INDEX NAME)

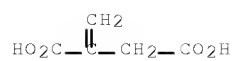
CM 1

CRN 101124-89-4
CMF (C16 H28 O7 S . C5 H6 O4 . C3 H4 O2)x
CCI PMS

CM 2

CRN 97-65-4
CMF C5 H6 O4

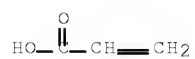
10/594,519-309792-EIC SEARCH



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 101124-88-3

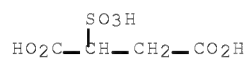
CMF C16 H28 O7 S

CCI IDS

CM 5

CRN 5138-18-1

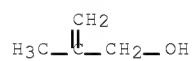
CMF C4 H6 O7 S



CM 6

CRN 513-42-8

CMF C4 H8 O



CM 7

CRN 111-87-5

CMF C8 H18 O



RN 101124-93-0 HCAPLUS

CN Butanedioic acid, methylene-, polymer with C-(phenylmethyl)

10/594,519-309792-EIC SEARCH

C-2-propenyl sulfobutanedioate and 2-propenoic acid, sodium salt
(9CI) (CA INDEX NAME)

CM 1

CRN 101124-92-9

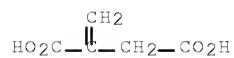
CMF (C14 H16 O7 S . C5 H6 O4 . C3 H4 O2)x

CCI PMS

CM 2

CRN 97-65-4

CMF C5 H6 O4



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 101124-91-8

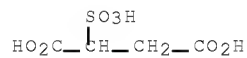
CMF C14 H16 O7 S

CCI IDS

CM 5

CRN 5138-18-1

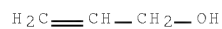
CMF C4 H6 O7 S



CM 6

CRN 107-18-6

CMF C3 H6 O



10/594,519-309792-EIC SEARCH

CM 7

CRN 100-51-6

CMF C7 H8 O



RN 101124-97-4 HCAPLUS

CN Butanedioic acid, methylene-, polymer with
 α -[1,4-dioxo-4-(2-propenyloxy)sulfobutyl]- ω -
 (octyloxy)poly(oxy-1,2-ethanediyl) and 2-propenoic acid, sodium
 salt (9CI) (CA INDEX NAME)

CM 1

CRN 101311-06-2

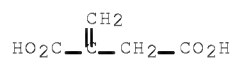
CMF (C5 H6 O4 . C3 H4 O2 . (C2 H4 O)n C15 H26 O7 S)x

CCI PMS

CM 2

CRN 97-65-4

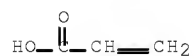
CMF C5 H6 O4



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 101311-05-1

CMF (C2 H4 O)n C15 H26 O7 S

CCI IDS, PMS

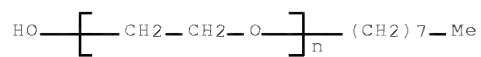
CM 5

CRN 27252-75-1

CMF (C2 H4 O)n C8 H18 O

CCI PMS

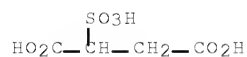
10/594,519-309792-EIC SEARCH



CM 6

CRN 5138-18-1

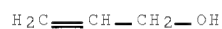
CMF C4 H6 O7 S



CM 7

CRN 107-18-6

CMF C3 H6 O



RN 101222-33-7 HCAPLUS

CN Butanedioic acid, methylene-, polymer with C-butyl C-2-propenyl sulfobutanedioate and 2-propenoic acid, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 101222-32-6

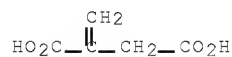
CMF (C11 H18 O7 S . C5 H6 O4 . C3 H4 O2)x

CCI PMS

CM 2

CRN 97-65-4

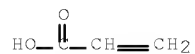
CMF C5 H6 O4



CM 3

CRN 79-10-7

CMF C3 H4 O2



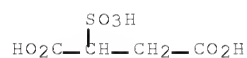
10/594,519-309792-EIC SEARCH

CM 4

CRN 101222-29-1
CMF C11 H18 O7 S
CCI IDS

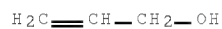
CM 5

CRN 5138-18-1
CMF C4 H6 O7 S



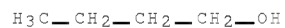
CM 6

CRN 107-18-6
CMF C3 H6 O



CM 7

CRN 71-36-3
CMF C4 H10 O



RN 101223-33-0 HCAPLUS
CN Butanedioic acid, methylene-, polymer with C-dodecyl C-2-propenyl
sulfobutanedioate and 2-propenoic acid, ammonium salt (9CI) (CA
INDEX NAME)

CM 1

CRN 101223-32-9
CMF (C19 H34 O7 S . C5 H6 O4 . C3 H4 O2)x
CCI PMS

CM 2

CRN 97-65-4
CMF C5 H6 O4

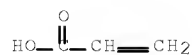


10/594,519-309792-EIC SEARCH

CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 101223-31-8

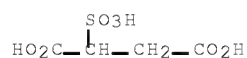
CMF C19 H34 O7 S

CCI IDS

CM 5

CRN 5138-18-1

CMF C4 H6 O7 S



CM 6

CRN 112-53-8

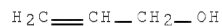
CMF C12 H26 O



CM 7

CRN 107-18-6

CMF C3 H6 O



IC ICM C09C003-10

ICA C08L033-04

CC 42-6 (Coatings, Inks, and Related Products)

ST acrylic acid copolymer dispersant pigment; allyl
sulfosuccinate copolymer dispersant pigment; calcium
carbonate dispersant aq coating

IT Dispersing agents

((meth)allyl sulfosuccinate copolymers, for inorg. pigments, in

10/594,519-309792-EIC SEARCH

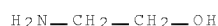
manufacture of storage-stable aqueous coatings)
 IT Kaolin, uses and miscellaneous
 RL: USES (Uses)
 (dispersants for, (meth)acrylic acid copolymers as,
 in manufacture of storage-stable aqueous coatings)
 IT Pigments
 (inorg., dispersants for, methacrylic acid copolymers
 as, in manufacture of storage-stable aqueous coatings)
 IT 471-34-1, uses and miscellaneous
 RL: USES (Uses)
 (dispersants for, (meth)acrylic acid copolymers as,
 in manufacture of storage-stable aqueous coatings)
 IT 101124-84-9 101124-87-2
 101124-90-7 101124-93-0 101124-97-4
 101150-91-8 101222-31-5 101223-33-7 101222-35-9
 101223-33-0 101311-43-7
 RL: USES (Uses)
 (dispersants, for inorg. pigments, in manufacture of
 storage-stable aqueous coatings)

L83 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1982:7631 HCAPLUS Full-text
 DOCUMENT NUMBER: 96:7631
 ORIGINAL REFERENCE NO.: 96:1389a,1392a
 TITLE: Interfacial crosslinking of latex films
 INVENTOR(S): Moore, Carl; Kirchoff, Robert A.
 PATENT ASSIGNEE(S): Dow Chemical Co., USA
 SOURCE: U.S., 11 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
US 4293476	A	19811006	US 1979-63279	1979 0802

PRIORITY APPLN. INFO.: <--
 US 1979-63279
 1979
 0802

ED Entered STN: 12 May 1984
 AB Strong, water-resistant films are prepared from aqueous dispersions of polymer particles having a high concentration of reactive groups on their surface, and H₂O-soluble compds. reactive with these groups. Thus, adding styrene 52, butadiene 28, and C₁₂H₂₅SH 0.2 part and AIBN 0.25, C₁₂H₂₅C₆H₄CH₂SMe₂+ Cl- (I) 1, and H₂O 63 parts over 5 h to AIBN 0.4, I 1, and H₂O 142 parts stirred at 75°, stirring 3.5 h, adding butadiene 7, styrene 3, and ClCH₂C₆H₄CH:CH₂ 10 parts over 2 h, and stirring 3 h at 75° gives a 38.3% copolymer [55844-89-8] latex, number-average particle size 1340 Å. Stirring this latex 125.5, polyethylenimine [9002-98-6] (number-average mol. weight 40,000) 0.9, and C₉H₁₉C₆H₄(OCH₂CH₂)nOH 1.5 part, drying a film, and baking 5 min at 120° gives a film with tensile strength 164 kg/cm² and elongation 346%, compared with 65 and 520, resp., without crosslinking.
 IT 141-43-5, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinking by, of polymer latexes, interfacial)
 RN 141-43-5 HCAPLUS
 CN Ethanol, 2-amino- (CA INDEX NAME)

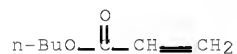


IT 80137-64-0
 RL: USES (Uses)
 (graft, latex, interfacial crosslinking of)
 RN 80137-64-0 HCAPLUS
 CN Butanedioic acid, methylene-, polymer with 1,3-butadiene, butyl
 2-propenoate, (chloromethyl)ethenylbenzene and ethenylbenzene
 (9CI) (CA INDEX NAME)
 CM 1
 CRN 30030-25-2
 CMF C9 H9 Cl
 CCI IDS



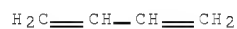
CM 2

CRN 141-32-2
 CMF C7 H12 O2



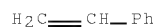
CM 3

CRN 106-99-0
 CMF C4 H6



CM 4

CRN 100-42-5
 CMF C8 H8



10/594,519-309792-EIC SEARCH

CM 5

CRN 97-65-4
CMF C5 H6 O4

IC C08L051-04
INCL 260029700W
CC 37-6 (Plastics Manufacture and Processing)
IT 100-97-0, reactions 107-15-3, reactions 110-85-0, reactions
112-24-3 141-43-5, reactions 9002-98-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(crosslinking by, of polymer latexes, interfacial)
IT 80137-63-9 80137-64-0
RL: USES (Uses)
(graft, latex, interfacial crosslinking of)
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE
THIS RECORD (3 CITINGS)
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L83 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1978:137999 HCAPLUS Full-text
DOCUMENT NUMBER: 88:137999
ORIGINAL REFERENCE NO.: 88:21703a,21706a
TITLE: Aerobically crosslinkable coating materials
INVENTOR(S): Sunamori, Takashi; Nishii, Noboru
PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 52127989	A	19771027	JP 1976-44637	1976 0419
US 4146588	A	19790327	US 1977-786194	1977 0411
GB 1535888	A	19781213	GB 1977-15797	1977 0415
PRIORITY APPLN. INFO.:			JP 1976-44637	A 1976 0419

ED Entered STN: 12 May 1984
AB Aqueous dispersions of Ce(III) compds., chelate-forming compds., SmOn2- (m = 1-6, n = 1-7), and water-soluble or water-dispersible vinyl compds. are stored anaerobically,

10/594,519-309792-EIC SEARCH

applied to a substrate, and crosslinked in air to form coatings. Thus, a composition of an aqueous solution containing 0.99 mol/L acrylamide and 0.01 mol/L N,N'-methylenediacrylamide 98, pyridine [110-86-1] 0.15, acrylic acid 0.15, acetylacetone [123-54-6] 0.20, 0.05 M Ce(NO₃)₃ in N HNO₃, and 5% aqueous Na₂SO₃ solution 1 mL was stored in N and applied to a rust-covered steel plate through a spray gun. The solution diffused in the rust and gelled quickly to form a copolymer [27791-59-9] coating.

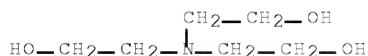
IT 102-71-6, uses and miscellaneous

RL: USES (Uses)

(acrylamide coatings containing cerous compds. and, for aerobic crosslinking)

RN 102-71-6 HCAPLUS

CN Ethanol, 2,2',2''-nitritotris- (CA INDEX NAME)



IT 66062-73-5

RL: TEM (Technical or engineered material use); USES (Uses)

(coatings, containing cerous compds. and chelating agents as crosslinking catalysts)

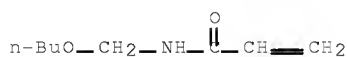
RN 66062-73-5 HCAPLUS

CN Butanedioic acid, methylene-, polymer with N-(butoxymethyl)-2-propenamide, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, N,N'-methylenebis[2-propenamide] and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 1852-16-0

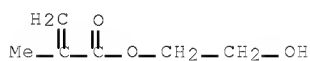
CMF C8 H15 N O2



CM 2

CRN 868-77-9

CMF C6 H10 O3

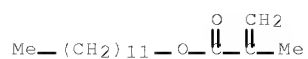


CM 3

CRN 142-90-5

CMF C16 H30 O2

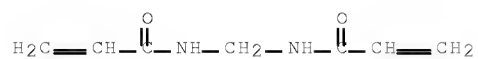
10/594,519-309792-EIC SEARCH



CM 4

CRN 110-26-9

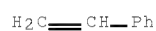
CMF C7 H10 N2 O2



CM 5

CRN 100-42-5

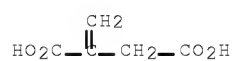
CMF C8 H8



CM 6

CRN 97-65-4

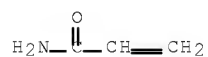
CMF C5 H6 O4



CM 7

CRN 79-06-1

CMF C3 H5 N O



IC C08F004-12

CC 42-7 (Coatings, Inks, and Related Products)

IT 102-71-8, uses and miscellaneous 110-86-1, uses and miscellaneous 123-54-6, uses and miscellaneous 7757-83-7

RL: USES (Uses)

(acrylamide coatings containing cerous compds. and, for aerobic crosslinking)

IT 27791-59-9 66062-73-8 66072-42-2

10/594,519-309792-EIC SEARCH

RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, containing cerous compds. and chelating agents as
crosslinking catalysts)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
THIS RECORD (1 CITINGS)

L83 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1969:462497 HCAPLUS Full-text

DOCUMENT NUMBER: 71:62497

ORIGINAL REFERENCE NO.: 71:11574a

TITLE: Inhibition of the precipitation of metal ions
in aqueous solution

INVENTOR(S): Carter, Richard P., Jr.; Irani, Riyad R.

PATENT ASSIGNEE(S): Monsanto Co.

SOURCE: Fr., 9 pp.
CODEN: FRXXAK

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
FR 1533473		19680719	FR 1967-110549	1967 0615
			<--	
DE 1792665			DE	
GB 1168718			GB	
US 3463734		19690826	US	1966 0616
			<--	
PRIORITY APPLN. INFO.:			US	1966 0616
			<--	

ED Entered STN: 12 May 1984

AB Poly(itaconic acid) and its water-soluble salts were used as sequestering agents in washing composition, containing alkyl-benzenesulfonate detergents, to prevent the precipitation of alkaline earth and transition metal ions. A typical formulation consists of 20% C12H25C6H4SO3Na, 50% poly(Na itaconate), 1% Na CM-cellulose, 10% Na silicate, and 19% Na2SO4, and is used as a cleaning agent and as a dishwashing detergent.

IT 25119-64-6 25609-79-4 25916-37-4
26099-89-8

RL: USES (Uses)
(as chelating agents in detergents)

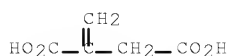
RN 25119-64-6 HCAPLUS

CN Butanedioic acid, 2-methylene-, homopolymer (CA INDEX NAME)

CM 1

CRN 97-65-4

CMF C5 H6 O4



RN 25609-79-4 HCAPLUS

CN Succinic acid, methylene-, polymers, compd. with

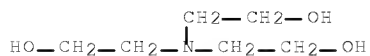
10/594,519-309792-EIC SEARCH

2,2',2''-nitrilotriethanol (8CI) (CA INDEX NAME)

CM 1

CRN 102-71-6

CMF C6 H15 N O3



CM 2

CRN 25119-64-6

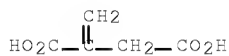
CMF (C5 H6 O4)x

CCI PMS

CM 3

CRN 97-65-4

CMF C5 H6 O4



RN 25916-37-4 HCAPLUS

CN Butanedioic acid, methylene-, homopolymer, ammonium salt (9CI)
(CA INDEX NAME)

CM 1

CRN 25119-64-6

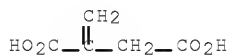
CMF (C5 H6 O4)x

CCI PMS

CM 2

CRN 97-65-4

CMF C5 H6 O4



RN 26099-89-8 HCAPLUS

CN Butanedioic acid, 2-methylene-, homopolymer, sodium salt (CA
INDEX NAME)

CM 1

CRN 25119-64-6

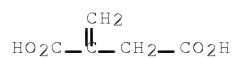
CMF (C5 H6 O4)x

CCI PMS

CM 2

10/594,519-309792-EIC SEARCH

CRN 97-65-4
CMF C5 H6 O4



IC C11D
CC 46 (Surface Active Agents and Detergents)
IT ~~25119-64-6~~ ~~25609-79-4~~ ~~25916-37-4~~
~~26099-89-8~~
RL: USES (Uses)
(as chelating agents in detergents)

10/594,519-309792-EIC SEARCH

FULL SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 12:10:08 ON 28 SEP 2009)

FILE 'HCAPLUS' ENTERED AT 12:20:03 ON 28 SEP 2009

E US20070197747/PN

L1 1 SEA SPE=ON ABB=ON PLU=ON US20070197747/PN
D ALL
SEL RN
D SCA

FILE 'REGISTRY' ENTERED AT 12:22:30 ON 28 SEP 2009

L2 18 SEA SPE=ON ABB=ON PLU=ON (100-60-7/BI OR 102-71-6/BI
OR 108-91-8/BI OR 109-89-7/BI OR 110-91-8/BI OR
111-42-2/BI OR 124-30-1/BI OR 124-68-5/BI OR 137107-41-
6/BI OR 141-43-5/BI OR 35830-10-5/BI OR 471-34-1/BI OR
534-18-9/BI OR 584-10-1/BI OR 75-04-7/BI OR 864970-32-1
/BI OR 864970-33-2/BI OR 9003-04-7/BI)
D SCA

FILE 'STNGUIDE' ENTERED AT 12:22:49 ON 28 SEP 2009

FILE 'REGISTRY' ENTERED AT 12:25:30 ON 28 SEP 2009

L3 2 SEA SPE=ON ABB=ON PLU=ON L2 AND PMS/CI
D SCA
D 1-2 CI

FILE 'LREGISTRY' ENTERED AT 12:26:28 ON 28 SEP 2009

L4 STR

FILE 'REGISTRY' ENTERED AT 12:36:09 ON 28 SEP 2009

L5 SCR 2043
L6 50 SEA SSS SAM L4
D QUE STAT

FILE 'HCAPLUS' ENTERED AT 12:39:15 ON 28 SEP 2009

D SCA L1

FILE 'REGISTRY' ENTERED AT 12:39:15 ON 28 SEP 2009

E 35830-10-5/RN

L7 1 SEA SPE=ON ABB=ON PLU=ON 35830-10-5/RN,CRN
D SCA

E 9003-04-7/RN

L8 1 SEA SPE=ON ABB=ON PLU=ON 9003-04-7/RN
D SCA

D

L9 947 SEA SPE=ON ABB=ON PLU=ON 9003-01-4/CRN

L10 70415 SEA SPE=ON ABB=ON PLU=ON 79-10-7/CRN

L11 70415 SEA SPE=ON ABB=ON PLU=ON (L7 OR L8 OR L9 OR L10)
D QUE STAT L6

L12 63799 SEA SSS FUL L4
SAV TEMP L12 BER519REG/A
D SAV

L13 626916 SEA SPE=ON ABB=ON PLU=ON A1/PG

L14 5826 SEA SPE=ON ABB=ON PLU=ON L12 AND L13

L15 3961 SEA SPE=ON ABB=ON PLU=ON L12 AND ?AMMONIUM?/CNS

L16 3901 SEA SPE=ON ABB=ON PLU=ON L12 AND ?AMINE/CNS

L17 11353 SEA SPE=ON ABB=ON PLU=ON L12 AND ?SALT/CNS

L18 878 SEA SPE=ON ABB=ON PLU=ON L16 AND L17

FILE 'LREGISTRY' ENTERED AT 12:53:16 ON 28 SEP 2009

L19 STR

FILE 'REGISTRY' ENTERED AT 13:10:26 ON 28 SEP 2009

10/594,519-309792-EIC SEARCH

L20 50 SEA SUB=L12 SSS SAM L4 AND L19
 L21 22190 SEA SUB=L12 SSS FUL L4 AND L19
 SAV TEMP L21 BER519REGA/A
 L22 4666 SEA SPE=ON ABB=ON PLU=ON L15 OR L18
 L23 3023 SEA SPE=ON ABB=ON PLU=ON L16 NOT L18
 SAV TEMP L22 BER519REGB/A
 SAV TEMP L23 BER519REGC/A

FILE 'HCAPLUS' ENTERED AT 13:14:46 ON 28 SEP 2009

L24 15704 SEA SPE=ON ABB=ON PLU=ON L21
 L25 4369 SEA SPE=ON ABB=ON PLU=ON L22
 L26 1664 SEA SPE=ON ABB=ON PLU=ON L23
 L27 16554 SEA SPE=ON ABB=ON PLU=ON L24 OR L25

FILE 'REGISTRY' ENTERED AT 13:16:30 ON 28 SEP 2009

L28 10 SEA SPE=ON ABB=ON PLU=ON L2 AND N/ELS
 D SCA

FILE 'HCAPLUS' ENTERED AT 13:19:49 ON 28 SEP 2009

L29 121064 SEA SPE=ON ABB=ON PLU=ON L28
 L30 16798 SEA SPE=ON ABB=ON PLU=ON L27 OR L26
 L31 329 SEA SPE=ON ABB=ON PLU=ON L29 AND L30
 L32 4618 SEA SPE=ON ABB=ON PLU=ON L25 OR L31
 L33 9577 SEA SPE=ON ABB=ON PLU=ON L14
 L34 13575 SEA SPE=ON ABB=ON PLU=ON L32 OR L33
 L35 117311 SEA SPE=ON ABB=ON PLU=ON L12
 L36 2127 SEA SPE=ON ABB=ON PLU=ON L35 AND L29

D SCA L1

E AMINES/CT

L37 155818 SEA SPE=ON ABB=ON PLU=ON AMINES/CT
 L38 2197 SEA SPE=ON ABB=ON PLU=ON L35 AND L37
 L39 3984 SEA SPE=ON ABB=ON PLU=ON L36 OR L38

D QUE STAT L33

D QUE STAT L24

D QUE STAT L22

L40 8219 SEA SPE=ON ABB=ON PLU=ON L32 OR L38 OR L39
 L41 QUE SPE=ON ABB=ON PLU=ON HYDROSOLUBL? OR (HYDRO OR
 WATER OR H2O OR AQUEOUS) (A) SOLUBL?
 L42 912 SEA SPE=ON ABB=ON PLU=ON L40 AND L41
 L43 212 SEA SPE=ON ABB=ON PLU=ON L42 AND L29
 L44 147 SEA SPE=ON ABB=ON PLU=ON L42 AND L33
 L45 338 SEA SPE=ON ABB=ON PLU=ON L43 OR L44
 L46 QUE SPE=ON ABB=ON PLU=ON SUSPEN? OR DISPERS? OR
 COLLOID? OR EMULS? OR MICROEMULS? OR SLURR?
 L47 171 SEA SPE=ON ABB=ON PLU=ON L45 AND L46
 D SCA L1

FILE 'LREGISTRY' ENTERED AT 13:42:15 ON 28 SEP 2009

L48 STR L4

FILE 'REGISTRY' ENTERED AT 13:44:26 ON 28 SEP 2009

L49 50 SEA SUB=L12 SSS SAM L48
 L50 7985 SEA SUB=L12 SSS FUL L48
 SAV TEMP L23 BER519REGD/A
 L51 766 SEA SPE=ON ABB=ON PLU=ON L50 AND ?SODIUM?/CNS
 L52 7694 SEA SPE=ON ABB=ON PLU=ON L50 AND ACID/CNS

FILE 'HCAPLUS' ENTERED AT 13:47:37 ON 28 SEP 2009

L53 726 SEA SPE=ON ABB=ON PLU=ON L51
 L54 13203 SEA SPE=ON ABB=ON PLU=ON L52
 L55 8 SEA SPE=ON ABB=ON PLU=ON L47 AND L53
 L56 19 SEA SPE=ON ABB=ON PLU=ON L53 AND L45
 L57 23 SEA SPE=ON ABB=ON PLU=ON L54 AND L47
 L58 66 SEA SPE=ON ABB=ON PLU=ON L54 AND L45

FILE 'REGISTRY' ENTERED AT 13:50:48 ON 28 SEP 2009

L59 150 SEA SPE=ON ABB=ON PLU=ON L50 AND ?POTASSIUM?/CNS

10/594,519-309792-EIC SEARCH

FILE 'HCAPLUS' ENTERED AT 13:51:18 ON 28 SEP 2009

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L60      124 SEA SPE=ON  ABB=ON  PLU=ON  L59
L61      1 SEA SPE=ON  ABB=ON  PLU=ON  L60 AND L47
L62      4 SEA SPE=ON  ABB=ON  PLU=ON  L60 AND L45
L63      66 SEA SPE=ON  ABB=ON  PLU=ON  (L55 OR L56 OR L57 OR L58)
      OR (L61 OR L62)
L64      13321 SEA SPE=ON  ABB=ON  PLU=ON  L50
L65      351 SEA SPE=ON  ABB=ON  PLU=ON  L64 AND L29
L66      16 SEA SPE=ON  ABB=ON  PLU=ON  L65 AND L47
L67      42 SEA SPE=ON  ABB=ON  PLU=ON  L65 AND L45
L68      67 SEA SPE=ON  ABB=ON  PLU=ON  L63 OR L66 OR L67
L69      QUE SPE=ON  ABB=ON  PLU=ON  PY=<2004 NOT P/DT
L70      1 SEA SPE=ON  ABB=ON  PLU=ON  L68 AND L69
L71      QUE SPE=ON  ABB=ON  PLU=ON  (PY=<2004 OR PRY=<2004 OR
      AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
L72      44 SEA SPE=ON  ABB=ON  PLU=ON  L68 AND L71
L73      45 SEA SPE=ON  ABB=ON  PLU=ON  L70 OR L72
L74      23 SEA SPE=ON  ABB=ON  PLU=ON  L73 AND (L55 OR L56 OR
      L57) OR L66)
L75      24 SEA SPE=ON  ABB=ON  PLU=ON  L74 OR L70
      SAV TEMP L75 BER519HCP/A
      D SCA
L76      24 SEA SPE=ON  ABB=ON  PLU=ON  L75 AND L41
      E DISPERSING AGENTS/CT
      E E3+ALL
L77      25685 SEA SPE=ON  ABB=ON  PLU=ON  DISPERSING AGENTS/CT
L78      45 SEA SPE=ON  ABB=ON  PLU=ON  L73 AND L41
L79      3 SEA SPE=ON  ABB=ON  PLU=ON  L78 AND L77
L80      3 SEA SPE=ON  ABB=ON  PLU=ON  L73 AND L77
L81      4 SEA SPE=ON  ABB=ON  PLU=ON  L66 AND L77
L82      0 SEA SPE=ON  ABB=ON  PLU=ON  L81 AND (L69 OR L70)
L83      28 SEA SPE=ON  ABB=ON  PLU=ON  L76 OR (L79 OR L80 OR L81
      OR L82)
      SAV TEMP L83 BER519HCPA/A
      D QUE STAT L83
      D L83 1-28 IBIB ED ABS HITSTR HITIND

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